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The

CHEMIST AND DRUGGIST

Established 1859

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APRIL 27, 1935

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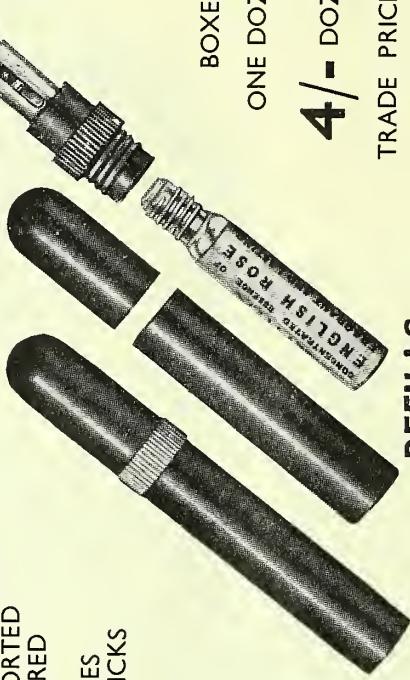
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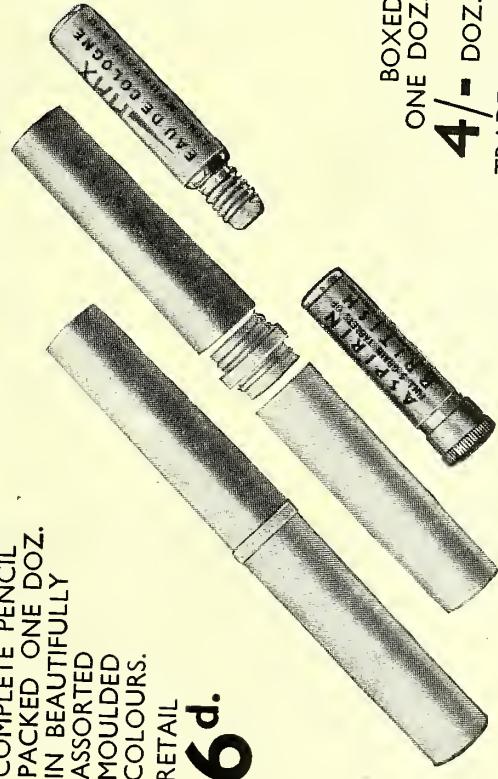


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Famous Figures



JUSTUS LIEBIG

Justus Liebig 1803-1873, one of the most outstanding chemists of the last century was born at Darmstadt. After attending the local Gymnasium he was apprenticed to an apothecary. He eventually completed his education at Bonn and Erlangen where he took his degree. At the age of nineteen he left for Paris where he studied with Gay-Lussac. He returned to become professor at Giessen.

On taking up his appointment at Giessen, Liebig instituted one of the first teaching laboratories in Europe. Previously it had been almost impossible for a student of chemistry to acquire practical instruction in this subject, including the use of apparatus and the methods of chemical analysis.

He wrote at the time of his experiment "Everyone was obliged to follow his own course. Everyone learned from the others. We worked from break of day till nightfall." It was in this spirit that the enterprise was started and it was so successful that its example was followed by Universities all over the world.

Liebig visited England several times and once commented that English chemists were disinclined to employ the title chemist as the average man used it. In 1837 Liebig made three outstanding contributions to chemistry. He introduced and perfected a method for analysing organic compounds which is still in general use. He discovered numerous important compounds including chloroform, chloral and certain cyanides, and he evolved the theory of compound radicles.

Liebig enjoyed a long friendship with another famous German chemist—Wöhler (who syn-

thesized urea independently of animal life) and it was their joint work which resulted in the discovery of the compound radicle benzoyl, from oil of bitter almonds. About this time he also gave out his views upon ferments and aroused great interest in his conception of the transmutation between the mineral, vegetable and animal kingdoms.

Portrait is taken from the statue to Liebig outside the Engel Apotheke, Darmstadt. (By courtesy of E. Merck.)

(21)

In Pharmacy AND ITS ALLIED FIELDS

Liebig left Giessen to take up an appointment in Munich where he spent the remainder of his days. His name is popularly remembered by the extract of meat he formulated and by the Liebig condenser.

Remarkably free from vanity, Liebig was the recipient of some of the highest honours from his own, the English and the French Governments. He edited either alone or jointly several scientific publications of special value. His "Annalen" started in 1832, reached the 165th volume in the year of his death, and the number has since been doubled. His "Jahresbericht" and "Letters on Chemistry" are also of great interest.

Liebig made an incomparable contribution both to pure and applied chemistry as well as to the methods of chemical practice, and the far-reaching effects of his discoveries are still evident in most branches of the chemical industry to-day.

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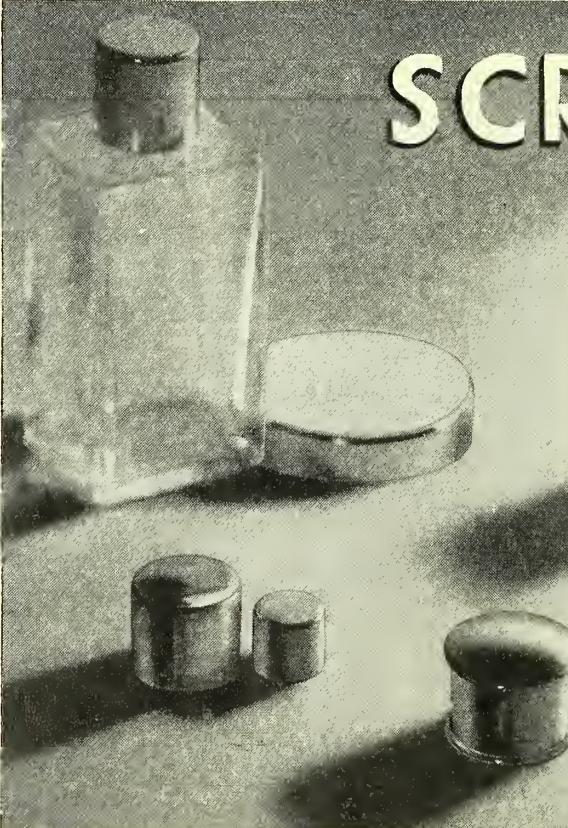
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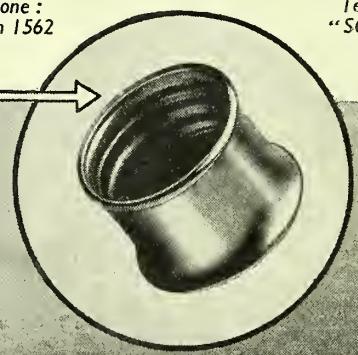
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★ IN A SIMPLE COMPETITION

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Lady Gay
Jubilee Bouquet



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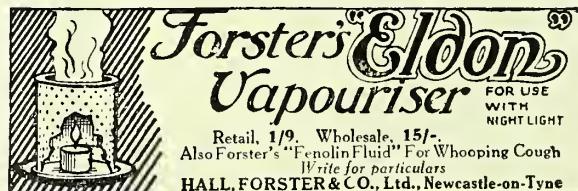
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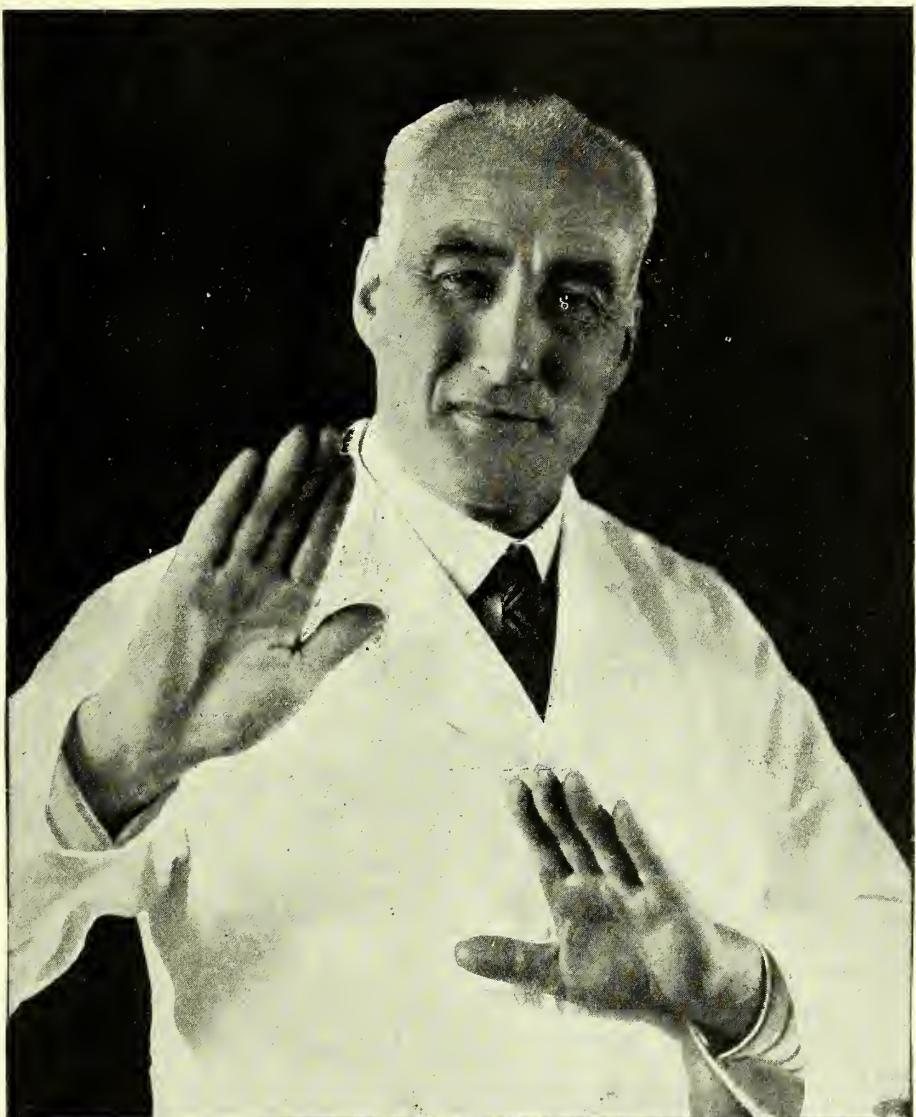
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Candles are made with the
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They light easily and
burn safely and freely.
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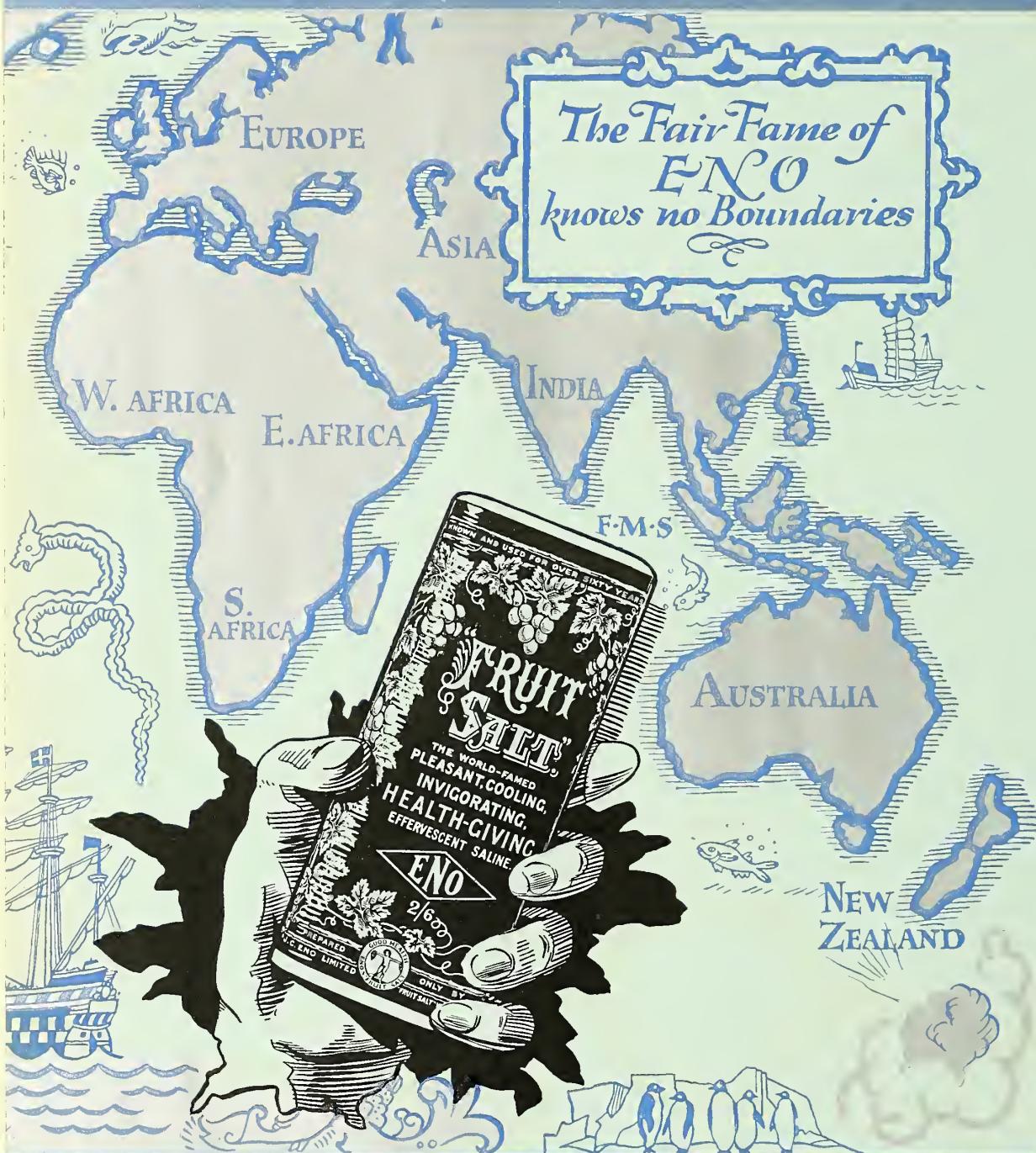
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SILVER JUBILEE

1910-
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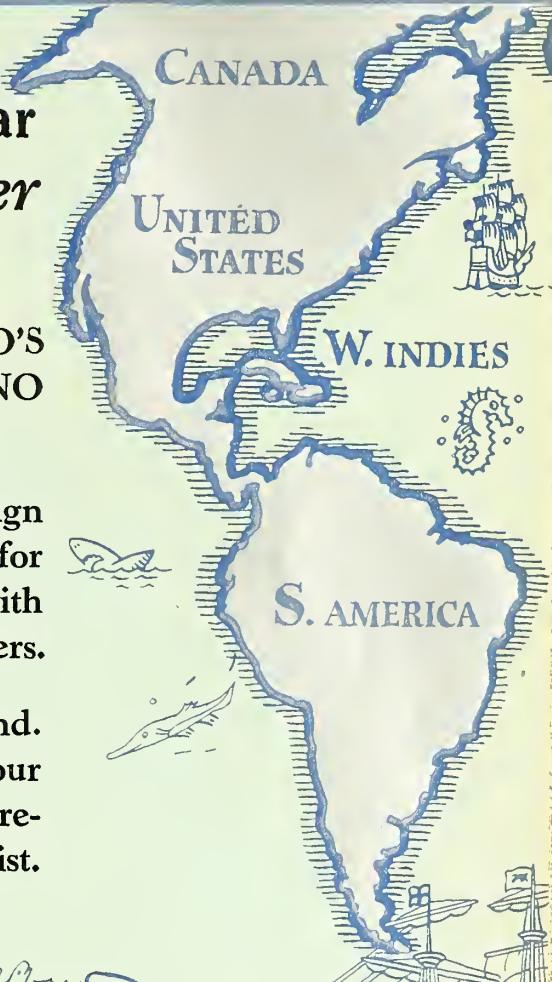
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most of them are regular
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Stock up in readiness for their demand.
 Display ENO showcards and packs in your
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6 dozen - - - @ 3/8 "
12 dozen - - - @ 3/6 "
May be assorted for own name

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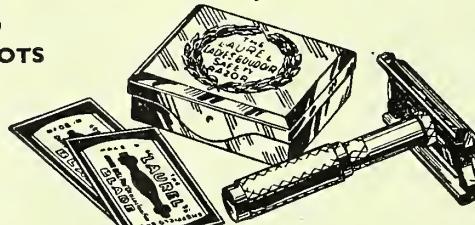
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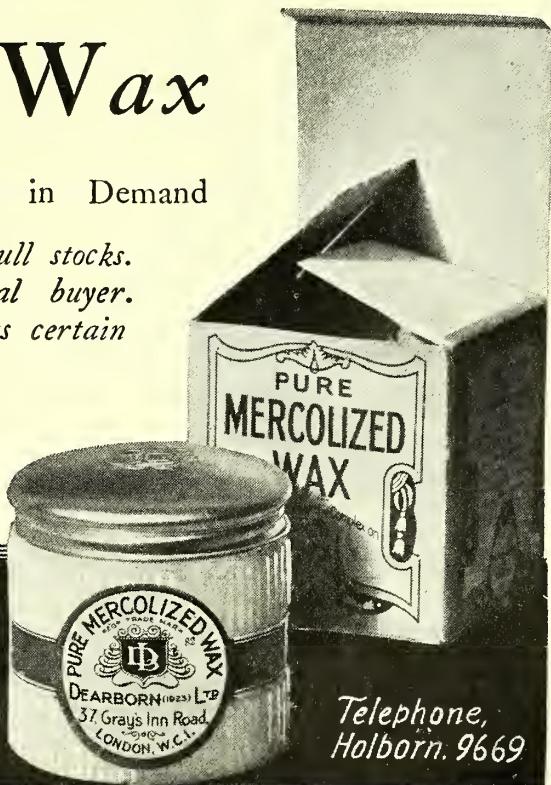
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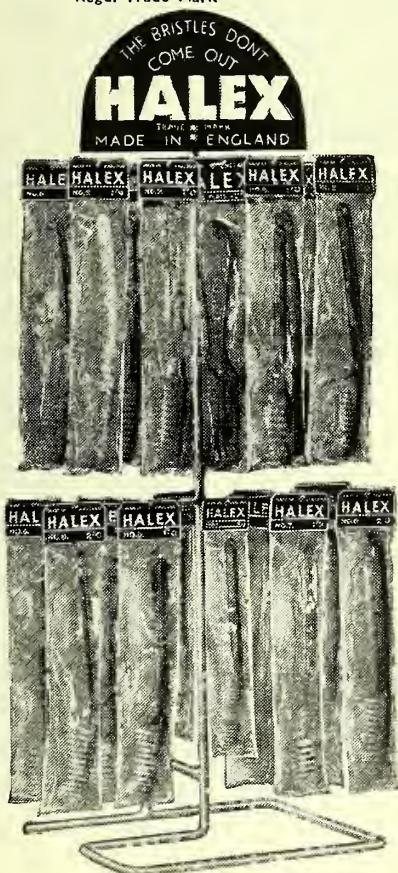
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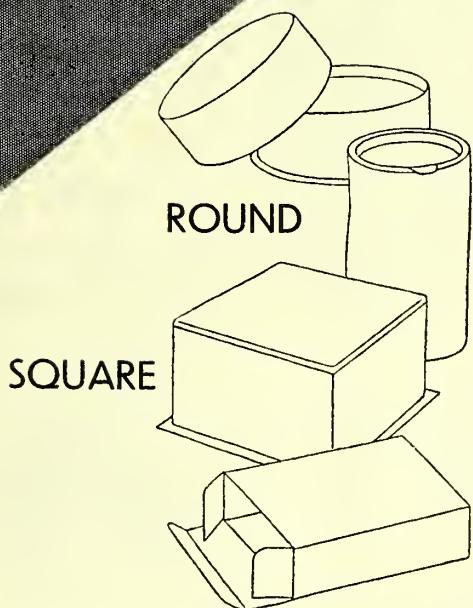


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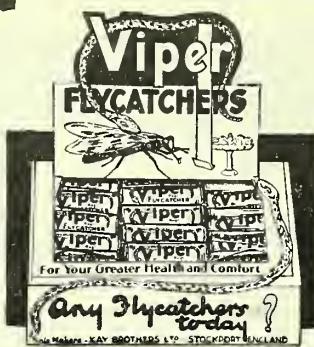
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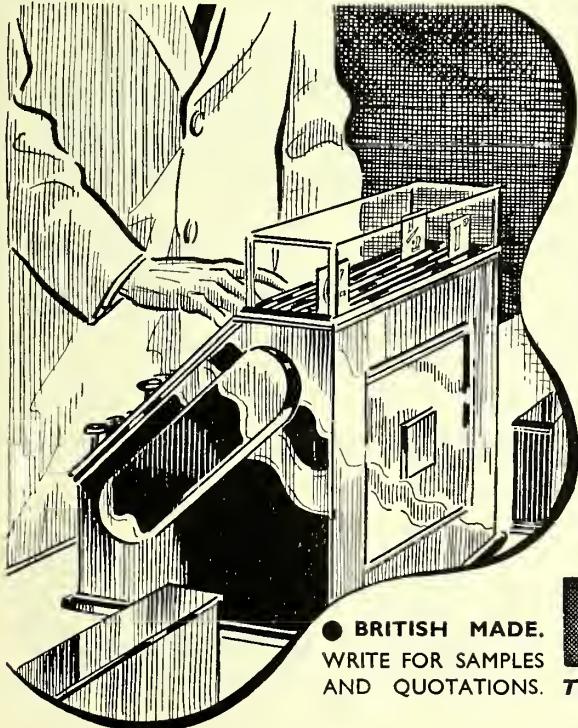
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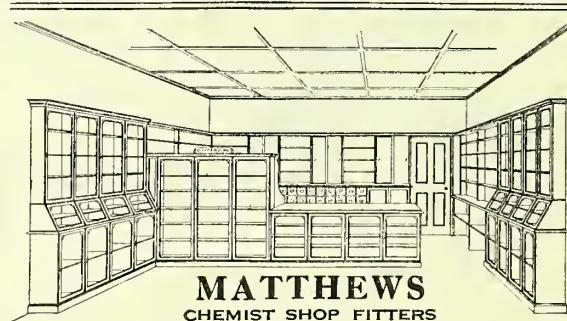
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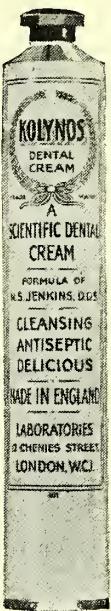


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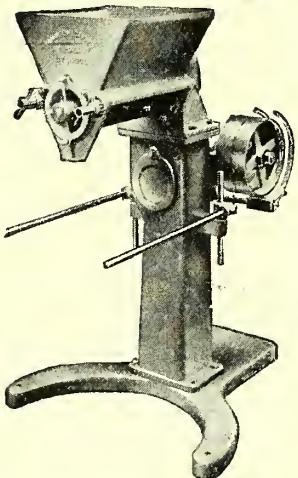
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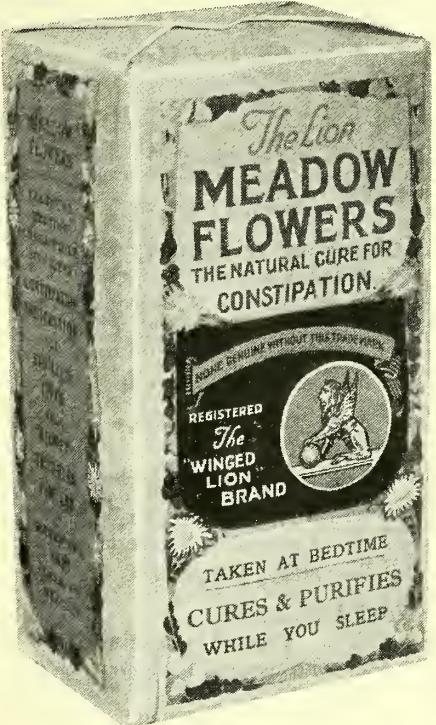
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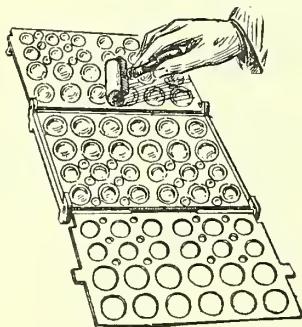
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The official organ of The Pharmaceutical Society of Ireland,
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News of the Week

Import Duties Exemptions

Under the Import Duties (Exemptions) (No. 9) Order, dated April 16, 1935, the Treasury have exempted SOLID INSOLUBLE QUEBRACHO EXTRACT from liability to duty under the Import Duties Act, 1932, as from April 18.

Under the Import Duties (Exemptions) (No. 10) Order, dated April 23, the following descriptions of goods were added to the Free List and became free imports on and from April 25, 1935:—

Vegetable fibres of the following varieties, namely: Bahia piassava (*attalea funifera*), Para piassava (*leopoldinia piassaba*), Mexican fibre or Istle (*agave heteracantha*), Madagascar fibre (*dictyosperma fibrosum*) and Gomuti or Gomuti fibre (*arenga saccharifera*), not further dressed after scutching or decorticating.

British Chemicals at the Brussels Exhibition

Organised by the Association of British Chemical Manufacturers, the British chemical industry is staging a co-operative and very comprehensive exhibit at the Brussels Exhibition, which will be opened on Saturday, April 27, and continue for six months. The products of over ninety manufacturers will be represented. The industry, for the purpose of the exhibition, is divided into seven main sections, namely, fine chemicals, pharmaceutical chemicals, heavy chemicals, plastics, dyestuffs and allied products, coal tar products and agricultural chemicals. In each section a full range of the chemicals produced in this country will be on view. The inquiry department will be situated in the centre of the exhibit. The catalogue compiled by the Manufacturers' Association, which, we understand, will only be available at the exhibition, gives an interesting account of the growth of the chemical industry of this country and particulars of all the firms represented by the in-

dustry's exhibit. The catalogue is printed in German, Spanish and French, as well as in English.

British Medical Association Report

The annual report of the Council of the British Medical Association, published in "The British Medical Journal" of April 20, includes the following items:—

Arising out of the following minute, "That it be referred to the Council to consider whether an effort should be made by the Association to republish an up-to-date edition of 'Secret Remedies,'" the whole position regarding proprietary and secret remedies is being explored. In view of the difficulties and the expense involved the Council is unable to recommend the publication of an up-to-date edition of "Secret Remedies," but is considering, in collaboration with the Pharmaceutical Society, the possibility of collecting and disseminating in some convenient form information concerning the composition and therapeutic activity of the ever-increasing number of proprietary remedies which are placed upon the market. The Standing Committee on Scientific Research of the Economic Advisory Council is also interested in this question, and a conference will shortly be held between representatives of that body and of the Association.

The Council has been in communication with the Poisons Board in reference to one of the Provisional Poisons Rules under the Poisons and Pharmacy Act of 1933. Under the Rule in question, a medical practitioner will ordinarily be required to render to the seller of a poison before sale an order in writing signed by the purchaser stating his name and address, the name and quantity of the article to be purchased, and if the purpose for which the poison is required by the purchaser is not apparent from the circumstances of the order, the purpose for which the poison is required by him. . . . The Council suggested to the Poisons Board that unless this Rule was amended so as to

exempt registered medical practitioners from its provisions it would cause considerable inconvenience to dispensing practitioners, particularly in view of the great number of drugs now included in the First Schedule; that any risk to the public arising from the exemption was negligible; and that in respect of all drugs ordered either by a doctor himself or on his behalf a satisfactory record was obtained on the invoices sent to him at the time of dispatch. Unfortunately the Poisons Board has declined to accept the suggestion made by the Council. The Council has come to the conclusion that the matter is not one which can usefully be pursued further.

Birkenhead

The annual meeting of the Birkenhead and Wirral Pharmacists' Association took place on April 10, the president (Mr. Frank Snow) in the chair. The secretary (Mr. G. L. Hale) gave an account of the position of the Association, showing a balance in hand of about £25. Mr. J. Ambrose Lloyd took the chair on being elected *President* in succession to Mr. Snow. Other officers were elected as follows:—*Vice-Presidents*, Messrs. T. Stephen-Jones and F. Snow; *Auditors*, Messrs. P. Grant and W. L. Male; *Treasurer*, Mr. J. A. Dewar; *Secretaries*, Mr. F. Snow and Mr. G. L. Hale; *Secretary of Pharmaceutical Committee*, Mr. F. Snow. The meeting dealt with the appointment of a pharmaceutical representative on the committee of a local public medical service scheme. The scheme generally deals with the extension of National Health Insurance to include dependants for medical benefit on a contributory basis. Under this scheme the doctor provides all home and surgery treatment, including medicines and simple dressings. A concession has been made to the unemployed who have finished insurance by allowing them to join the scheme for 4d. a week. Free choice of doctor is allowed. No entrance fee is payable, and six weeks' contributions admit to benefit. In giving a short *résumé* of a meeting between the doctors and a pharmacists' delegation, Mr. T. Stephen-Jones said he told the doctors that during the year's trial which they had agreed to give the scheme they should have to price the prescriptions. Regarding their representative on the committee, he pointed out that this would be a very important position, because he would not merely have to look after the interests of the chemists but also the interests of the scheme. He had in mind two very good men; he referred to Mr. P. Grant, with Mr. Fore as his deputy. After discussion, it was decided to ask Messrs. Grant and Fore to represent the chemists on the committee. Opening a "grouse night," Mr. Hale brought forward the suggestion that the Birkenhead Branch of the P.D.A. should join the Liverpool Branch, and this evoked some comment from Mr. Manley on the subject of P.D.A. matters generally. He was not in favour of this new film which the P.D.A. had introduced, contending that it was a cut price film being marketed at a cut price discount, 40 per cent. Yet he sympathised with the P.D.A. to some extent, for had they not made this agreement the film would have been put in all sorts of shops. He wanted to impress them that they should try to keep the photographic business. There was considerable opposition from outside traders who found it a profitable line. After a short discussion on the functions and membership of the Birkenhead Branch of the P.D.A., Mr. Manley remarked that the P.D.A. had altogether 10,600 members approximately, and in Wallasey they had 65 members. Mr. Stelfox thought they should suggest to the P.D.A. that they would get more members if the subscription was reduced to 5s. Mr. F. Snow suggested that they should ask a member of the P.D.A. down so that they could have these things out and invite the Wallasey Branch to join them on that night. Mr. Stephen-Jones said he thought they should leave it in abeyance for the time being until they settled their syllabus for the next session. A short discussion on Ex-Lax and Vapex schemes concluded the meeting.

Birmingham

Dr. J. A. Aeschlimann, of Basle, addressed the Birmingham and Midland section of the Society of Chemical Industry, recently, on "Alkaloids." The lecturer dealt especially with the synthesis of new medicinal alkaloids.

A well-attended meeting of the Birmingham Branch of the Photographic Dealers' Association was held on April 11. It served the dual purpose of annual meeting of the Branch and a meeting of *bona-fide* dealers to hear an address by Mr. A. Hoare (treasurer of the Association) and Mr. C. T. Thonger

(Branch chairman). The following officers were elected:—*Chairman*, Mr. C. T. Thonger; *Vice-chairman*, Mr. L. Ingram; *Treasurer*, Mr. D. Willey; *Secretary*, Mr. L. W. Hurcomb; together with Messrs. Gale, Juggins, Mason, G. W. Riley, J. Riley, Roach and Walker to form a *Committee*. Sympathetic reference was made to the deaths of Mr. Jenson and Mr. Partridge since the last meeting. The chairman gave a *résumé* of recent events in the Association, mentioning particularly the agreements signed with manufacturers. Mr. A. Hoare also dealt with the recent agreements and mentioned that membership of the P.D.A. was higher to-day than at any time in its history. A discussion followed in which points were raised by Messrs. Billington, Gardner, King, Smallwood, Ingram, Willey, Riley, Gale and Knowles. The vote of confidence in the National Council passed in November was heartily endorsed, and the meeting concluded with a vote of thanks to Mr. Hoare and Mr. Thonger.

Blackburn

At Blackburn Police Court, on April 23, Walter Ball, Burnley Road, Accrington, and Herbert Cunliffe, Grimshaw Park, Blackburn, were each ordered to pay costs, including 21s. analyst fee, for selling bottles of liquid ammonia on the label of which was not the seller's name and address.

Dr. V. T. Thierens, medical officer of health for Blackburn, addressed the April meeting of the North-East Lancashire Branch of the Pharmaceutical Society. Dr. Thierens' subject was "The Role of Bacteria in the Causation and Prevention of Disease." Mr. Ralph Pickup (president) was in the chair. Dr. Thierens first discussed the well-established theory of bacterial origin of disease and described the methods by which various types of micro-organisms might be identified. He also dealt with the use which could be made of bacteria in the prevention of disease. The address provoked a good discussion which lasted over an hour, and the lecturer replied to all the points raised. Dr. Thierens was heartily thanked on the proposition of Mr. Clifford Taylor, seconded by Mr. A. Dobson and supported by Alderman W. H. Grimshaw.

Blackpool

A meeting of the newly formed Blackpool Chemists' and Photographic Dealers' Golfing Society was held on April 11. Mr. F. Dickinson was appointed *Captain*, Mr. F. Rickman *Treasurer*, Mr. A. Barnes *Secretary*; the *Committee* are Messrs. Sidebottom, Rothery, Dowty, Cornforth, Tattersall, Smith and Durkin. The subscription was fixed at 5s. per annum. It was decided that the first competition be held at Blackpool Golf Club on May 1 for the Ucal trophy. Several more competitions will be held during the year.

Carmarthen

The annual meeting of the Cardigan, Carmarthen and Pembskeshire Branch of the Pharmaceutical Society was held at Carmarthen on April 11. The following officers were elected:—*Chairman*, Miss Evans (Cross Hands); *Vice-Chairman*, Mr. Meyler (Milford); *Secretary and Treasurer*, Mr. John Gower (Llanelli). Members were unanimous in supporting the candidature of Mr. H. M. Lloyd (Merthyr) at the coming Council election.

Huddersfield

At the March meeting of the Huddersfield Branch of the Pharmaceutical Society a prize of books was presented to the best pharmacy student of the year. A discussion took place on the resolution of Mr. Hines at the January Council meeting. Many members were strongly in agreement with it, and it was decided that the following resolution be sent to the Society:—"That any further commitments by the Council in connection with the new building be postponed until full information has been laid before the Branches." A strong desire was expressed by the members that a twelve-months' full-time systematic course be instituted by the local Technical College, and employers were recommended, when engaging apprentices, to allow them to attend this course in their first year. The secretary was asked to communicate with the principal of the College with a view to obtaining these conditions.—At the April meeting of the Branch the chair was occupied by the president (Mr. E. Thomas). The members listened with interest to an address by Mr. Woolhouse on "Why I Became a Pharmacist," and a discussion followed. To mark the long services of Mr. Henry

Sykes and Mr. J. B. Broadbent, the members of the Branch presented them each with a pipe and pouch (*C. & D.*, April 20, p. 487).

Leeds

A meeting of the Leeds Branch of the National Pharmaceutical Union was held recently, Mr. H. Gillegan in the chair. The speaker was Mr. R. G. Shaw, who spoke on "Now and Then." Mr. Shaw compared pharmacy at the end of last century with that of the present day, and read extracts from the journals of 1899. A vote of thanks to Mr. Shaw was proposed by Mr. N. N. Armitage and seconded by Mr. F. W. Kemp.

London

At Marylebone Police Court, London, recently, Isadore S. Aarons (35), telephone operator, was fined £4, with 20s. costs, for stealing a camera and perfume, value £1, from the shop of Mr. W. A. Hill, chemist and druggist, Westbourne Grove, W.2.

At West London Police Court, on April 16, Mr. John Alexander Ross, medical practitioner, Blake Road, S.W., was fined £9 9s., with £2 2s. costs, for failing to keep a correct register of "dangerous" drugs obtained. It was stated that the defendant was a drug addict.

Liverpool

Honorary LL.D. degrees are to be conferred by Liverpool University on May 24 on Professor Arthur Harden, F.R.S., late director of biochemistry, Lister Institute, and Dr. Nevil V. Sidgwick, O.B.E., F.R.S., president-elect of the Chemical Society.

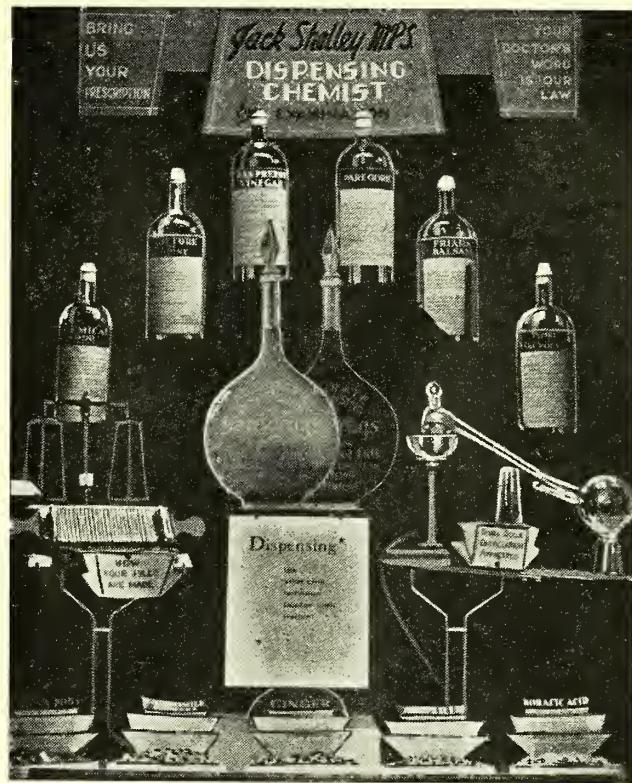
The annual meeting of the Liverpool Branch of the Pharmaceutical Society was held recently at the Royal Institution, Colquitt Street, the President, Mr. G. L. Clubb, was in the chair. In the course of his annual report the secretary (Mr. W. E. Humphreys) referred to the success of the various meetings held. Mr. M. S. Hughes (treasurer), in presenting his financial statement, said that expenditure amounted to £85 and income to £48, leaving a deficit of £37. This deficit had been met out of the funds of the Association. Had their allocation per member from the Society been the same as in previous years, the deficit on the year would have been a good deal less. Mr. John Rae proposed a resolution protesting against the reduction of 6d. per member in the allocation to an active branch such as theirs. This was seconded by Mr. R. Clitherow and carried unanimously. Mr. M. S. Hughes pointed out that he had already protested very strongly to the Society on the point. The following were proposed for election or re-election as representatives of the Branch on the council of the Liverpool Chemists' Association:—Miss E. Dobie, Mr. A. J. Jones, Mr. R. Clitherow, Mr. B. Hale. Replying to a question, the secretary said there were 517 members and twenty-four student-associates this year compared with 468 members and 17 student-associates last year. The result of the ballot was as follows:—Mr. R. Clitherow 26; Mr. A. J. Jones 23; Miss E. Dobie 21; Mr. B. Hale 18. Messrs. Clitherow and Jones were accordingly elected. When the election of delegates to the British Pharmaceutical Conference was brought forward, the secretary pointed out that the Branch was only allowed four delegates this year. In a severe condemnation of the new arrangement, Mr. W. J. Tristram said it seemed to him to be a most unfair arrangement to Liverpool and other large branches. Suppose Liverpool had something of importance to put forward; under the new arrangement two branches such as Birkenhead and Wallasey, although having a combined membership far less than that of Liverpool, could nullify the vote of Liverpool. He did not know whether any member of the Council was responsible for this. The Pharmaceutical Society had already destroyed the branches of their Society by their autocratic attitude. They had already decided in their Branch what they were going to do at the next election, and other branches were deciding between the retail candidates and others. In his opinion certain members of the Council were not worthy of support. Mr. R. Clitherow said he was in complete agreement with Mr. Tristram. They had a right to proportional representation at the Conference. Replying to a question, the chairman said so far as he could see, this new apportionment appeared to have been passed by the Council of the Society. He was in entire agreement with a member who remarked that it was a retrogressive step. Mr. W. J. Tristram proposed: "That this meeting of the Liverpool and District Branch of the Pharmaceutical Society strongly protests against the allot-

ment of a smaller number of delegates than its numbers warrant, and affirms the view that in a democratic organisation the number of delegates to an annual conference should be in relative proportion to the number of its members." This was seconded by Mr. B. Hale and carried unanimously. Delegates to the Conference were appointed.

Reading

By courtesy of the pharmacist in charge, Mr. A. O. Forder, members of the Reading and District Branch of the Pharmaceutical Society and their friends were invited to inspect the x-ray, radium and cardiological departments of the Royal Berks Hospital, Reading, on April 11. The visitors were received by Mr. Forder, and began the tour of inspection at the radiographic room. A practical demonstration was given by Mr. Forder. Visits were also paid to the ultra-violet ray room and the radium room. The latter has a burglar-proof safe with special protective apparatus for the storage of about 300 mg. of radium, and a protective apparatus for the maximum amount of safety whilst making up and issuing radium plaques. The electro-cardiographic room is wired up to the men's and the women's medical wards of the hospital, so that serious heart cases may be examined without the patient being moved. The x-ray therapy rooms contain a coil outfit producing 180,000 volts continuously through a water-cooled x-ray tube and a new dosimeter. Light refreshments were handed round by Mrs. Forder and lady helpers, and a vote of thanks to the host and hostess was proposed by the chairman (Mr. A. Greenwood Watkins).

Walsall



A WINDOW AT THE PHARMACY OF SHELLEYS CHEMISTS, LTD., CALDMORE, WALSALL, WITH A C. & D. WINDOW CARD CONVEYING ITS MESSAGE

Miscellaneous

HULL FISHING STRIKE.—A settlement of the Hull fishing strike (*C. & D.*, April 20, p. 477) was announced on April 19.

PHARMACY ACTS.—At Southport, recently, Leonard Mell, patent-medicine dealer, Argyle Road, was fined £5 for unlawfully using the title "druggist."

GLASS CONVENTION.—The British glass industry is holding its fourth Convention at Folkestone on May 16-18. Mr. Geoffrey L. Pilkington will preside.

MALARIA IN CEYLON.—"The Times" of April 25 devotes a column to a report of the results obtained in Ceylon with atebri-musonat in the treatment of malaria.

DAMAGE BY LIGHTNING.—The premises of Mr. G. E. Griffiths, chemist and druggist, Leyland, were struck by lightning on April 22, a chimney and a room being damaged.

BURGLARY.—At Birkenhead Quarter Sessions, recently, Arthur J. W. Leather (35), was bound over for two years on charges which included breaking into the shop of Mr. J. A. Stelfox, chemist and druggist, Raffles Road, and stealing money and goods.

ANTHRAX PREVENTION ACT.—Orders in Council prohibit, as from April 22, the importation into Great Britain and Northern Ireland of tops or yarns made wholly or partly of goat hair and, into Northern Ireland (and, except under certain conditions, into Great Britain) of goat hair and goods mixed therewith.

BRITISH INDUSTRIES FAIR.—Within a month after the close of the British Industries Fair in London, applications for 377,262 sq. ft. of space had been received from 735 exhibitors who wish to participate in next year's Fair. The total space already applied for is more than three-fourths of the area occupied this year.

DRIED MINT.—At Leicester, recently, Cecil P. Sibston, Wigston Magna, was summoned for wrongly describing dried mint. Batchelor & Co., merchants, Sheffield, were summoned for aiding and abetting. The case against Sibston was dismissed on payment of 4s. costs. It was explained for Batchelor & Co. that there was not sufficient mint produced in England to supply more than a very small proportion of the demand. The adulteration (with ailanthus leaves) was quite harmless. Batchelor & Co. were fined £5, with 21s. costs.

Scottish Notes

Brevities

In the Town Hall, Forfar, on April 17, the following were elected to the Pharmaceutical Committee for the county of Angus:—Messrs. John Anderson (Dundee); M. MacFarlane (Forfar); A. W. Ritchie (Montrose); Stenhouse (Brechin); Troup (Monifieth); McGouigal (Carnoustie); and Martin (Kirriemuir). Mr. Troup was appointed chairman and Mr. A. W. Ritchie secretary.

The annual competition for the Petrie trust bursary will be held in Aberdeen on May 15. The subjects of examination are dispensing, pharmacy and business methods, the knowledge required being such as would be acquired during apprenticeship. Candidates must be student-associates of the Pharmaceutical Society, and have served at least three years with a pharmacist in the city or county of Aberdeen, and may have attended evening classes in chemistry, botany and physics. Entries will be received up to May 11 by Mr. W. G. Mitchell, 431 George Street, Aberdeen.

An apparently new version of the familiar "change" trick, in which a chemist was the victim, is given in a recent issue of a Scottish newspaper. It seems that the fraud was started by means of a telephone message to the chemist urgently requesting a supply of bandages and lint, as there had been an "accident." The chemist was asked to send along change for 10s. so that the messenger could be paid on the spot. Interception of the messenger by a "harassed looking" young man and the handing over of a sealed envelope purporting to contain a 10s. note completed the trick.

Irish Notes

Dublin and Provincial Retail Drug Association

At the special meeting of the General Committee of the Dublin and Provincial Retail Drug Association held on April 15, Mr. T. C. Scott (president) in the chair, a letter was read from the manufacturers of Sister Lauras Food stating that the sale of their proprietary would be restricted in the Irish Free State to chemists. An intimation on similar lines was received on behalf of the manufacturers of Maclean's Stomach Powder. In connection with the sale of cosmetics, satisfactory replies were also received from Irish Pharmaceuticals, Ltd.,

and the manufacturers of Juventa beauty preparations. From James Crean & Son, Dublin, a letter was received intimating that, in response to the Association's representations, it had been decided to discontinue supplying their Dromona toilet lines to certain stores, and to market these products only through pharmacies. The Committee expressed great satisfaction at the attitude adopted by the above manufacturers, and decided to place their names on a Recommended List of Manufacturers to be compiled in the near future. The inquiry conducted by the Association into D. and P. prices in the Free State revealed that outside Dublin area prices were being well maintained. Letters received from Cork, Limerick, Waterford and elsewhere indicated that 1s. 10d. for developing and printing 120 film, and *pro rata* prices for other films, were being obtained. In view of these reports the Committee decided that it could not fix prices for the country generally on a scale actually below those many members were obtaining. On the contrary, the Committee felt that they should do everything possible to help members to maintain the old standard of prices wherever possible. The Committee decided to hear the report of Mr. Brendan Smith, organiser, and fix prices for Dublin area only, if this were feasible. Mr. Smith reported that since the last meeting he had visited 104 chemists in the Dublin district, and of this number only fourteen were getting the 1s. 10d. rate for 120 films. Thirty-eight were getting prices on the basis of 1s. 3d. for 120 films, and were in favour of the proposed schedule of prices circulated by the Association. Thirty-four chemists were only getting 1s. for 120 films, and were definitely opposed to any increase in their present scale of charges. The remaining eighteen chemists interviewed, Mr. Smith added, were indifferent with regard to fixing prices. After a lengthy discussion the Committee agreed that it would be impossible to fix any prices for Dublin area which could be made binding upon members. The D. and P. prices for Dublin chemists are accordingly left open this season. On the suggestion of some members of the Committee it was decided to approach the manufacturers of printing papers and request that supplies to price-cutting finishers be curtailed.

Additions to the Poisons Schedule in Northern Ireland

"The Belfast Gazette" of April 20 contains an Order in Council, dated April 16, approving the resolution passed by the Pharmaceutical Society of Northern Ireland and the Medical Faculty of Queen's University, Belfast, amending Part I of the Fourth Schedule to the Pharmacy and Poisons Act (Northern Ireland), 1925. The Order is as follows:—

"That pursuant to Section I of the Poisons (Ireland) Act, 1870, as amended by Section 24 (3) of the Pharmacy and Poisons Act (Northern Ireland), 1925, the substances as follows be added to Part I of the Fourth Schedule of the Pharmacy and Poisons Act (Northern Ireland), 1925:—

"Dinitro phenols; dinitro cresols; preparations or admixtures containing dinitro phenols; preparations or admixtures containing dinitro cresols.

"Phenylcinchoninic acid, its salts, its esters; derivatives of phenylcinchoninic acid, their salts, their esters; preparations and admixtures containing phenylcinchoninic acid, its salts, its esters; preparations and admixtures containing derivatives of phenylcinchoninic acid, their salts, their esters."

Brevities

Cork Chemical & Drug Co., Ltd., have secured the contract for the supply of medicines to the Cork Fever Hospital.

Fieldings Pharmacy, Cork, has been awarded the contract for the supply of medicines to the North Charitable Infirmary, Cork.

Three candidates presented themselves for the Registered Druggist examination of the Pharmaceutical Society of Ireland on April 9; all were unsuccessful.

Of the fifty-one candidates who entered for the April Licence examination of the Pharmaceutical Society of Ireland, forty-five presented themselves for examination.

Boileau & Boyd, Ltd., Dublin, and Evans Sons Lescher & Webb (Ireland), Ltd., Dublin, have secured the contract for medicines and drugs to the Department of Defence.

Mr. Francis MacMahon, L.P.S.I., is shortly opening a pharmacy at 114 Rock Road, Booterstown, co. Dublin. Mr.

MacMahon served his apprenticeship to Mr. P. J. Quinn, M.P.S.I., Dungannon, co. Tyrone.

Mr. P. J. Killacky, M.P.S.I., the examiner for the Assistants' examination of the Pharmaceutical Society of Ireland, has been bereaved by the death of his father. The interment at New Cemetery, Galway, was attended by many pharmacists.

At Londonderry Petty Session, on April 18, James Gilmartin was summoned for having sold camphorated oil deficient in camphor to the extent of 22.6 per cent. The defendant said he sold the oil as he received it. A penalty of 20s., with 20s. costs, was imposed.

The disastrous fire which occurred at the Plaza Ballroom, Dublin, on April 24, has brought many expressions of regret from members of the drug trade on both sides of St. George's Channel—not, it must be mentioned, on account of the historic draws for the Irish sweepstake, but on account of the social events held there in connection with the meeting of the British Pharmaceutical Conference in 1929.

Belfast

Mr. T. L. Cole, Ph.C., Belfast, was the winner of the open hunt race silver cup at Ballyhafe (co. Down) races.

Dr. Preston, a former examiner in the Registered Druggist section under the old Pharmaceutical Society of Ireland, paid a visit to Belfast recently.

Mr. Fred Storey, president of the Pharmaceutical Society of Northern Ireland, attended the levée of the Lord Chief Justice of Northern Ireland at the opening of the Easter term of the Supreme Court in Belfast.

Mr. Chas. Hermann, vice-president of McKesson & Robbins, Inc., New York, has been on a visit to Belfast, and spent

some time with Mr. Fred Storey, president of the Pharmaceutical Society, to whom he is related by marriage.

Dublin

Mr. P. C. Cahill, M.C.P.S.I., Whitehall, Dublin, was on parade with his old company of the Irish Volunteers during the 1916 commemoration ceremony held on Easter Sunday.

The continuance of the transport strike in Dublin marred to some extent the usual Easter holiday boom in D. and P. business. "Not so brisk as last year" was the comment of one Dublin chemist who does a big photographic trade.

Mr. M. P. Nolan (president), addressing the annual conference of the Irish Union of Distributive Workers and Clerks, held at Jury's Hotel, Dublin, on April 22, said a demand had been put forward to the Government to enact legislation limiting the hours of work in shops and factories to forty in the week, the enforcement of a weekly half-holiday for all commercial employees (commencing not later than 1 p.m.), the enforcement of minimum standards of hygiene, heating and ventilation, and the placing of the supervision of these regulations under a central Government department. Information had been received from the Government that legislation dealing with these matters would be introduced at an early date. In the Free State, he added, there were between 60,000 and 70,000 shop assistants, most of whom worked from twelve to fourteen hours a day in ill-ventilated and unhealthy atmospheres, and in addition were obliged to work on Sundays. Mr. C. J. McClean (chairman of the Limerick branch) welcomed to the ranks of their Union the chemists' assistants, who, he said, had a multiplicity of difficulties calling for immediate attention. Mr. J. Dwyer, the chemists' assistants' delegate to the conference, criticised the Control of Manufactures Act.

Topical Reflections

By Xrayser

The Meetings

of the Proprietary Articles Trade Association (*C. & D.*, April 20, p. 484) revealed several points of universal interest. The membership of the retail section was reported to be higher than at any time in the history of the Association; this is satisfactory so far as it goes, but, as pointed out by the president, there are thousands of retailers who benefit by the activities of the P.A.T.A. but are not members. Is an effort made to get some of these outsiders into the Association—always supposing that membership of the retail section is not restricted to chemists? I am interested to note that the large and increasing number of wholesalers is one contributing factor to price cutting. I have long held the view that manufacturers are far too easy in allowing so-called wholesalers full wholesale terms. There is an increasing number of wholesalers who carry on a considerable retail business and yet engage to some extent in wholesale trading; I take it that these are the offenders complained of. The fact that for the retail side of their business they enjoy two profits often leads to cutting. Much greater care should be exercised in giving such traders full terms; I am glad to see that the Council is alive to the dangers of what has been happening and are following, so far as they are able, a policy of restriction in the opening of fresh accounts. The practice of price maintenance has now become a habit with the great majority of chemists; and those critics who are apt to get angry when the officers of the Association are unable to stop flagrant cases of cutting promptly should remember, if they are old enough, the days when cutting was the practice, whereas to-day it is the exception.

The Report

of the mass meeting of Glasgow chemists to consider the suggested medical and pharmaceutical service for Glasgow (p. 491) reveals a satisfactory state of affairs, inasmuch as the first part of the meeting was attended by two medical men, both of whom spoke of their satisfaction at being present and outlined their attitude and that of their brethren towards the

suggested scheme. Such a friendly and cordial gesture is all to the good. I must confess that my sympathies are with Mr. J. B. McVitae and the 23 per cent. who voted for his amendment, which implied that a public medical and pharmaceutical service for dependants of insured persons and others is desirable for Glasgow, provided that in the first instance the dispensing is not restricted to duly qualified retail chemists. As explained by the medical men who attended the meeting, many of the Glasgow doctors dispense and at present are unwilling to give this up; these would, however, relinquish practice in time, and those who succeeded them would not be allowed to dispense; dispensing by doctors would thus eventually die out. Such a suggestion did not, however, meet with the approval of the majority of the chemists present. There the matter stands at present; the medical men do not agree to the proposal that they should be entirely excluded from dispensing under the suggested scheme. I hope that negotiations between the parties will be resumed; the matter at stake is too important to allow it to be dropped.

Ireland

is very much on the pharmaceutical map in your issue of April 20. I was impressed by your report (p. 485) of the annual meeting of the Chemists' and Druggists' Society of Ireland, showing a healthy state of activity in all its functions. Under the energetic guidance of Mr. Fred Storey the Society, like the Pharmaceutical Society of Northern Ireland, is spending time and money generously to make the coming Belfast meeting of the British Pharmaceutical Conference (June 24-28) an outstanding success. In these efforts the chemists of Londonderry are taking a notable part. On another page (478) the formation of new associations of chemists in the Irish Free State is welcome evidence of a corporate spirit which promises a practical solution of the more pressing problems confronting these bodies. The fact that they have "grasped the nettle" with such resolution is a good omen. The progress of their fight for better trading conditions will be watched with keen sympathy in this country.

Legal Reports

Chemical Food.—At Glasgow Central Police Court, on April 18, the stipendiary magistrate gave judgment in a case in which John McMillan, Ltd., Great Western Road, were charged under the Food and Drugs (Adulteration) Act, 1928, with having supplied chemical food not of the substance or quality of the article demanded, in that it was deficient in ferrous phosphate to the extent of about 18 per cent. The magistrate, in finding the respondents "Not guilty," said the case for the prosecution was that a food and drugs inspector asked for chemical food and did not get chemical food as recognised according to the British Pharmacopœia. The defence was that, while the complainant did not get chemical food according to the British Pharmacopœia standard, notice was given to him by label on the bottle that he was not getting chemical food of that standard, but was getting something else. The answer of the medical officer of health was that, while he got notice that the article given him was not of the British Pharmacopœia standard, it was not even up to the standard it was represented to be. The magistrate said he would not hold that, the purchaser having been notified that he was not getting chemical food of the standard asked for, but was getting something else, the respondents had contravened the Act. The "something else" the purchaser received was not what was demanded, but what he accepted in lieu of what he asked.

Business Changes

MR. J. MULHOLLAND, chemist and druggist, has opened a pharmacy at 51 English Street, Dumfries.

The proprietor of Butlers, chemists, 51 Sanvey Gate, Leicester, is now Mr. J. W. S. Allwood, chemist and druggist.

MR. F. BRADBURY, chemist and druggist, has purchased the business of Mr. H. Greenhalgh, 273 Lytham Road, Blackpool.

THE telephone number of Woodlands Chemists, Ltd., 34-40 Ludgate Hill, London, E.C.4, has been changed to City 6056 (two lines).

W. ASTON & CO., LTD., chemists, have opened premises in the new shopping centre at the corner of George V Avenue and Goring Road, Worthing.

MR. PHILIP LE QUESNE, chemist and druggist, Waterloo Pharmacy, Halkett Place, St. Helier, Jersey, has opened a branch in Conway Street.

MR. G. S. DAYKIN, chemist and druggist, 157 Upperthorpe Road, Sheffield, has taken over the business of Cottie, Ltd., 96 Devonshire Street, Sheffield.

THE London office of Rhodes, Brydon & Youatt, Ltd., engineers, Stockport, is now 28 Victoria Street, Westminster, London, S.W.1. Telephone: Victoria 5948.

DORLAND HALL, 14-16 Regent Street, London, S.W.1, conducted until recently by Mr. G. D. Smith, will in future be carried on by Mr. G. W. Kettle for trade and other exhibition purposes.

KNIGHTS, chemists, High Street, Harlesden, London, N.W.10, has been closed; the prescription-books have been acquired by Mr. P. D. Nowell, chemist and druggist, 25 Park Parade, Harlesden.

MR. STEPHEN P. SAYERS, chemist and druggist, 93 Brent Street, Hendon, London, N.W.4, has sold the lease of his premises and is ceasing business there on April 30. The stock and goodwill have been purchased by Mr. C. Woollons, chemist and druggist, who will continue at 130 Brent Street.

Gazette

Bankruptcy Acts

RECEIVING ORDER

GREY, ANN (a firm), 3 Everton Road, Liverpool, manufacturers of toilet preparations and perfumes.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

JOHN USHER, LTD. (P.C.)—Capital £500. Objects: To carry on the business of chemists, druggists, etc. R.O.: 38 Parsons Green, S.W.

MARVEA PRODUCTS, LTD. (P.C.)—Capital £2,000. Objects: To carry on the business of chemists, druggists, etc. R.O.: 103 Cannon Street, E.C.

H. LITTLER, LTD. (P.C.)—Capital £500. Objects: To carry on the business of chemists, druggists, etc. R.O.: 225 Barking Road, Canning Town, E.16.

PARRS (CHEMISTS), LTD. (P.C.)—Capital £500. Objects: To carry on the business of chemists, druggists, etc. R.O.: 23 South King Street, Blackpool.

BROOK PHARMACY, LTD. (P.C.)—Capital £200. Objects: To carry on the business of chemists, druggists, opticians, etc. R.O.: 11 Brook Road, Seven Kings.

A. G. SHUM, LTD. (P.C.)—Capital £300. Objects: To carry on the business of chemists, drug merchants, opticians, etc. R.O.: 9 Park Avenue, Medeley, Shropshire.

STEPHENS PHARMACY, LTD. (P.C.)—Capital £500. Objects: To acquire the business of a chemist carried on by Henry Stephens, Sen., at 292 Gidlow Lane, Wigan.

MILLRACE VETERINARY PRODUCTS, LTD. (P.C.)—Capital £4,000. Objects: To acquire the business of manufacturers of and dealers in proprietary and other foods and goods carried on by S. F. Topott, J. Weir, and J. V. Hutton at Park Factory, Castle Boulevard, Nottingham, as Millrace Animal Cures, and in particular to acquire the trade mark 547,124, Class 2.

ANDERSON'S (CHEMISTS), LTD.—At a meeting held at North Finchley recently it was resolved that this company be wound up voluntarily. Mr. A. G. White, 73 Cheapside, London, E.C.2, was appointed liquidator.

BRITISH PHOTOGRAPHIC PLATES & PAPERS, LTD.—At a meeting held in London recently it was resolved that this company be wound up voluntarily. Mr. O. W. Williams, Salisbury House, London Wall, London, E.C.2, was appointed liquidator.

Private Arrangements

Godfrey Morgan, trading as Godfrey Morgan & Co., Oxford Street, Pontycymmer, druggist. The adjourned meeting of creditors was held recently at Bridgend, when it was decided that the debtor should be given seven days in which to find security for the payment of the sum of £100, to be distributed amongst the creditors in settlement of their claims. A committee of inspection was also appointed. At the first meeting of creditors it was reported that the ranking liabilities amounted to £455 12s. 9d. and there were preferential claims of £32 2s. 8d., whilst the assets consisted of stock estimated at £10.

A. B. Barker, Market Place, Heckmondwike, chemist and druggist. A meeting of the creditors was held recently, when a statement of affairs was submitted which showed liabilities of £1,288 13s. 9d., made up as follows: Loan creditor, £302 15s. 7d.; trade creditors, £635 18s. 2d.; and bankers, £350. The assets comprised stock £280, estimated to realise £100; household furniture £100, put down at £20; fixtures and fittings £196 14s. 1d., valued at £30; cash in hand £4 5s. 2d.; and sundry debtors £14 13s., making a total of £168 18s. 2d. After allowing £45 for preferential claims the net assets were £123 18s. 2d., or a deficiency of £1,164 15s. 7d. The debtor had no offer to submit, but the father, who was a creditor in respect of loans, agreed to withdraw his claim, and the creditors resolved that the estate should be dealt with under a deed of assignment in favour of Mr. R. J. Moger, I.A., Cleckheaton, as trustee, with a committee of inspection.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council was held on April 19 at the Society's headquarters, 73 University Street, Belfast, the president (Mr. Fred Storey) in the chair. There were also present Messrs. J. E. Connor, S. S. Badger, R. I. Edwards, H. F. Moore, W. C. Tate, Charles Abernethy and Dr. S. E. A. Acheson. Mr. D. L. Kirkpatrick (secretary) was in attendance. Apologies for absence were received from Professor J. Small, Mr. W. S. Taylor (vice-president), Mr. S. H. Forrest, Mr. John F. Grimes and Mr. J. T. Nicholl.

DEATH

Before proceeding to business THE PRESIDENT expressed sympathy with Mr. Charles Abernethy on the death of his mother, who had attained the ripe old age of ninety-four years. He knew how much the members of the Abernethy family were devoted to one another and how deeply they felt the loss they had sustained. He moved that a vote of sympathy with Mr. Abernethy be passed.

MR. BADGER seconded the vote, which was passed standing. MR. ABERNETHY said he was grateful for the kindness of the members of the Council.

ABSENCE THROUGH ILLNESS

THE PRESIDENT referred sympathetically to the absence of Professor Small, Mr. Grimes and Mr. Gibson, members of the Council who were unable to be present through illness.

CORRESPONDENCE

The Ministry of Home Affairs wrote approving of the appointment of the examiners selected at the last meeting for the June examinations.

The acting principal of the Municipal College of Technology wrote granting the use of the College for the examinations for the week beginning June 10.

HOUSE COMMITTEE

The House Committee recommended that an appeal be lodged against the revaluation of the offices, which had been fixed at £104. They also recommended that certain repairs and improvements to the fabric of the building be carried out.

On the motion of MR. BADGER, seconded by MR. CONNOR, the recommendations were approved.

MEMBERS ELECTED

The following nominated candidates were elected as members of the Society:—Anna Kathleen McCune, 93 Eglington Avenue, Belfast. Douglas Ferguson Stoops, 4 Killycomain Road, Portadown. Arthur Beattie, Arborfield, Ballymoney.

JUBILEE FUND

The sum of £5 5s. was voted to the Prince of Wales's Jubilee Fund in reply to a letter from the Lord Mayor of Belfast.

EPHEDRINE DISCUSSED

MR. TATE asked what schedule ephedrine came under. Two firms did not list it as a poison at all.

THE PRESIDENT said there had been a prosecution in Dublin. MR. BADGER: They were not chemists.

DR. ACHESON asked if it was chemically an alkaloid.

THE PRESIDENT said he understood it was.

MR. TATE said there was considerable doubt in the trade about the matter.

MR. BADGER said unfortunately there was no uniformity among the makers.

THE PRESIDENT said it was better to have it cleared up. The Codex showed it was an alkaloid, and to his mind it was a poisonous one.

It was decided to ask the Ministry of Home Affairs for information on the matter.

BIOLOGY AS AN EXAMINATION SUBJECT

THE PRESIDENT drew attention to the fact that the Pharmaceutical Society in Great Britain were adding biology to the

syllabus. Their Society had reciprocity with Great Britain, and in a sense were more or less morally bound to follow what they were doing. According to their syllabus the botany was milder than that of the Society in Northern Ireland. Biology included zoology, and perhaps it would be well if the point were referred to the Education Committee as to whether or not they should follow.

MR. ABERNETHY: I think we have enough.

THE PRESIDENT: I think we have a kind of undertaking our syllabus is not to be any less high than theirs.

MR. BADGER said it was a thing that could not be brought in immediately.

THE PRESIDENT: It is June 1937 in England.

MR. ABERNETHY: Why not wait till they have introduced it?

THE PRESIDENT: Better let the Education Committee think it over. In the meantime we will get all the information we can about it.

The New Register

The Register of the Pharmaceutical Society of Northern Ireland for the current year has been issued, and is obtainable at the Office of the Society, 73 University Street, Belfast. It comprises lists of pharmaceutical chemists, superintendents of bodies corporate, chemists and druggists, registered druggists and certified assistants and apprentices to pharmaceutical chemists, honorary members, members, associates, licences for Northern Ireland (grouped under town and county headings), and schools recognised by the Council.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," April 10, 1935.)

"COMET"; for perfumery, etc. (48). By F. S. Cleaver & Sons, Ltd., 4 Lloyd's Avenue, London, E.C.3. 558,444.

"CELLUDESE"; for adhesive tape (50). By Beiersdorf, Ltd., Bessemer Road, Weiwyn Garden City, Herts. 556,640.

"SPEEDWAY"; for shaving brushes (50). By Vulfix Shaving Brush Co., Ltd., 74/78 Hardman Street, Deansgate, Manchester, 3. 558,646.

(From "The Trade Marks Journal," April 17, 1935.)

"MORSAN"; for chemicals for use as emulsifiers (1). "MORSO"; for all goods (1). By Mo-A-So Products, Ltd., Fairfield Road, Grove Park, Lee, S.E.12. 540,984/986. (Associated.)

"TROCK"; for chemicals (1). By Dryster, Ltd., Hertford Road, Barking, Essex. 558,144.

"ANOSOL"; for chemicals (2). By Monsol, Ltd., Vincent Square, London, S.W.1. 556,772.

"Mirzi"; for insect destroying preparations (2). By F. C. Wood, 24 Portland Place, Brighton. 557,670.

"PERM-O-TECT"; for a chemical in liquid form for preventing destruction by moths (2). By Pall Mall Deposit & Forwarding Co., Ltd., 1/4 St. Albans Place, Haymarket, London, S.W.1. 557,066.

"BONZO"; for medicines for dogs (2). By G. E. Studdy, Granville House, Arundel Street, London, W.C.2. 557,678.

"MIKROPLETH"; for homeopathic antispasmodic preparations containing guaiacol (3). By Dr. Madaus & Co., Stosch Sarassans Strasse, 18/22, Radebeul-Dresden, Germany. 555,158.

"ECZEDERM"; for a preparation for skin affections (3). By R. Daniel & Son, Ltd., Mansfield Road, Derby. 556,621.

"DIRIAN," "CANTAN" and "SELVORAL"; for medicinal chemicals (3). By Bayer Products, Ltd., 31-34 Basinghall Street, London, E.C.2. 552,672; 557,968; 558,704.

"SIR"; or conventional name-plate design; for all goods (3 and 48). "TROIKA"; for perfumery, etc. (48). By P. P. Mühlens, Glockengasse 26, Cologne, Germany. 557,181; 556,771 (Associated.) 557,423.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports ENGLAND

Hertfordshire.—At a recent meeting of the County Insurance Committee, the Pharmaceutical Service Subcommittee reported on three complaints against chemists. The first concerned a dressing. The chemist wrote that the dressing inadvertently supplied was of the old style, and not up to the standard of the present schedule. He added that he had since burned all the old stock, which he kept only to give to poor people. The subcommittee recommended that the chemist be cautioned. The second case concerned a mixture, analysis of which showed the complete absence of arsenic. The subcommittee recommended that the chemist be cautioned. A National Formulary mixture formed the subject of the third complaint. The chemist wrote regretting the error, which he said arose from his misreading the dose of the drug, which was in excess. The subcommittee recommended that the chemist be fined 10s. 6d.

Lancashire.—The report for 1934 of the Prescription Pricing Department of Lancashire Insurance Committee states, *inter alia*, that during the year it was necessary to return 8,079 prescriptions to chemists. A list of reasons is given, the greatest number (4,088) being under "formula required." The cost of insulin supplied by chemists to insured persons was £3,792 10s. 11½d. Stock vaccines cost £350 11s.; autogenous vaccines, £303 14s.; serums, £55 3s. The following are the totals of the numbers of prescriptions priced during 1934 compared with the five preceding years:—1935, 3,455,532; 1933, 3,588,590; 1932, 3,256,284; 1931, 3,176,899; 1930, 3,009,510; 1929, 3,298,840.

London.—At the March meeting of the London Pharmaceutical Committee, Mr. H. Skinner (chairman) presiding, the secretary reported particulars regarding delayed contracts; the action taken regarding illegible scripts; the reduction of insulin prices operating from March 1; and that in future after each meeting of the Insurance Committee the clerk will furnish for publication an official report of the business transacted. The following are comparative figures for the years 1933 and 1934:—

	1933	1934
Total No. of prescriptions..	8,805,891	8,482,787
Cost of ingredients ..	£124,552 19s. 9d.	£121,576 3s. 5d.
Cost of dispensing fees ..	£160,366 18s. 1d.	£153,869 16s. 1d.
Av. cost of ingredients ..	3.40d.	3.44d.
Av. cost of dispensing fees ..	4.37d.	4.35d.
Total No. of persons on list	1,923,400	1,786,500
Av. No. of prescriptions per person ..	4.58	4.75

The Chemists' Service Subcommittee reported particulars of fourteen cases dealt with under the testing scheme for the months of January and February, concerning which seven chemists were censured and seven were cautioned. A question was raised regarding the dispensing of mist. calc. lact., N.F., and the Committee decided that this preparation should be sent out as a clear solution.—At a meeting of the London Pharmaceutical Committee held on April 16 the Standing Subcommittee reported that after a full and careful consideration regarding an allegation made by the Panel Committee that in thirteen districts in London the "urgent" service after closing hours was inadequate, they were satisfied that the facilities now provided for the dispensing of scripts marked "urgent" after closing hours were adequate and reasonable. The Chemists' Service Subcommittee reported particulars of seven cases dealt with under the testing scheme for the month of March, concerning which one chemist was cautioned, five were censured and in the remaining case no further action was taken.

Sheffield.—The Pharmaceutical Service Subcommittee of Sheffield Insurance Committee made the following recommendations in a recent report:—In the case of an excess of 15.7 per cent. of potassium iodide it was recommended that a sum of £3 3s. should be withheld. In the case of a deficiency of 50 per cent. of silver nitrate a caution was given, the explanation being that the National Formulary was read as $\frac{1}{2}$ gr. instead of $\frac{1}{4}$ gr. The subcommittee were of opinion that the type used

in the National Formulary for prescriptions of this nature should be of a more distinct character. The explanation of a chemist whose prescription gave an excess of silver nitrate of 26 per cent. was accepted. On receiving the analyst's report he looked to his balance, which had been examined by the weights and measures department some time before and found correct. He had them examined again and they were still found correct, but on pressing for a special examination they were 1 gr. out.

SCOTLAND

Stirling.—At a recent meeting of Stirling Burgh Insurance Committee a report of the Medical Service Subcommittee on the action to be taken in the case of a doctor who had issued a blank prescription form to a patient was considered. It was explained that the prescription was originally made out by a specialist. The patient, since visiting the specialist, had called on the doctor to obtain fresh prescriptions. He called again, and the doctor filled up the form preparatory to filling in the recipe. The doctor then ascertained who the patient's chemist was and, as the patient was not feeling well, the doctor said he would call and make an accurate copy at the chemist's shop. The doctor forgot to return to the chemist's shop, the chemist unintentionally put the form away, and it found its way to the Central Bureau. The Subcommittee decided that the doctor acted in the best interests of the patient. The Insurance Committee approved the findings.

Notes and Queries

The following are answers to some of the questions that may arise in any pharmacy in connection with National Health Insurance dispensing

URGENT PRESCRIPTIONS.—Each chemist under contract with an Insurance Committee must notify the Committee of his normal hours of business, and during the time his shop is open for ordinary trading he is expected to dispense any insurance prescriptions that are brought to him. But after closing time—and that hour in most districts is generally assumed to be 8 p.m.—he is not bound to remain on duty. If there is a considerable demand for a dispensing service for insured persons in the area after that hour, the Insurance Committee and the Pharmaceutical Committee jointly will arrange a rota, in connection with which each contractor will be expected to take his turn.

If at any time after the normal closing hour the chemist is available and an insurance prescription is presented to him for dispensing, he need not make it up unless it is marked "Urgent" and bears the time of issue and the prescriber's initials. The chemist, after dispensing the "urgent" prescription, should mark it with the time dispensed and append his own initials as a claim for a special fee, which is double the ordinary dispensing fee appropriate to the particular class of medicament. Urgent prescriptions dispensed on holidays or Sundays when the shop is not normally open for business may also be given a special dispensing fee.

ORDERING PROPRIETARIES ON INSURANCE PRESCRIPTIONS.—There is nothing in the Regulations which forbids a practitioner to order medicine in a proprietary form. By a proprietary is understood either a drug or chemical under a patented name or a particular maker's brand of a well-known medicament. A practitioner, however, is expected to have regard to the cost of his prescriptions, and if he can secure equally good results at less cost by ordering recognised non-proprietary medicines he should not prescribe proprietaries. A close watch is kept on prescriptions; if in certain cases the cost appears to be unduly high when compared with statistics compiled from the prescribing of other practitioners in the same area, then a practitioner may be called upon to explain why he chose certain more costly remedies for the treatment of his patients. It is obvious that a practitioner would be less able to justify his prescribing in the case of a secret remedy than in the case of other branded products.

Council Candidates

IN our issue of April 20 (p. 483) we commenced the publication of the views of candidates for the seven seats on the Council of the Pharmaceutical Society falling vacant next month. We now give a further instalment.

Mr. James Clements Young, Ph.C.

carries on a retail business in North London. He became a pharmaceutical chemist in 1895, and is therefore fully experienced in the practice of pharmacy. Mr. Young is a past-president of the North London Pharmaceutical Association, president of the North Metropolitan Branch of the Photographic Dealers' Association, and a member of the Middlesex Pharmaceutical Committee. Mr. Young has replied to each of our questions in the following terms:—

Educational Policy. — The new Regulations will have the effect of improving the quality and lessening the number of entrants into pharmacy. The Regulations will have to be examined from time to time to remedy any defects arising therefrom.

New Building Scheme. — I am of opinion that new premises

will be needed when the leases at Bloomsbury Square expire. I am anxious that expense shall be carefully controlled and spread over a period of years, so that no harsh conditions be imposed on members.

The Control of Expenditure. — In view of recent criticism it would appear that closer scrutiny and simpler presentation of accounts are advisable.

Retention Fee. — The big increase in the Society's income would appear to warrant a reduction of this fee.

Annual Shop-registration Fee. — To be fixed at only sufficient to cover administrative and legal expenses.

Council's Trading Policy. — It is not a trading policy in the ordinary sense of the term, but is carried on solely for the benefit of members. Whether compulsory membership has altered the situation remains to be seen.

Present Trend of Pharmacy. — Appears to be along the lines of mere buying and selling. I should be glad to do anything possible to enlarge the professional side of pharmacy.

Mr. John J. Laws

is a member of the Pharmaceutical Society, Fellow of the Chemical Society, hon. treasurer of the Chemists' Dental Society, hon. general secretary of the Institute of Chemists-Opticians, and a member of the Ophthalmic Benefit Joint Committee. We have received the following statement from Mr. Laws:—

When asking an electorate for its vote and support the first step is for a candidate to declare his "policy." I dislike the term "policy," as it implies action of a "politic" nature which implies a course calculated to please or placate sectional interests rather than the pursuance of sound principles. I therefore pledge myself to act at all times, whether elected or not, for the ultimate good of the craft and those qualified chemists of which it is composed. I should not be influenced by groups or cliques, and should reserve liberty to vote or act in the best interests of the members of the Society.

MR. JOHN J. LAWS

influenced by groups or cliques, and should reserve liberty to vote or act in the best interests of the members of the Society.

"Pharmacy for the Pharmacist" is an easy phrase to use, but it may mean a lot or a little in actual practice. I should prefer to feel that the Council of the Society, especially as re-constituted, has an even greater duty than this phrase implies, and its aim should be not only to safeguard the interests of the individual pharmacist always and in every direction, but also, with due regard to public safety, the nation's health and the professions with which pharmacy is associated. It should be incumbent upon the Council to spend wisely in order to develop the educational and scientific foundation of the craft, to foster research and to advance side by side with progress. Finance, however, must be controlled and kept on a sound basis. The proceedings must be businesslike. There is a vast gulf between spending money and throwing it away.

I should do everything in my power to improve conditions for employers and employees, to impose as little restriction and hardship as possible with direct consideration for ultimate conditions. We have in the past been called upon to make many sacrifices without adequate compensation. For the future, the aim of the Council should be to fight with dignity and resolution to maintain every remaining privilege, to enhance the prestige of pharmacy and those engaged in it and the respect of all concerned not only for our aspirations but for the great service to the community for which we are responsible. If elected, I promise to consider every question on its merits, to support whatever is good for pharmacy and those engaged in it and for the public which it is our privilege and duty to serve.

In conclusion I would say: Do not be influenced by the suggestion that it is heresy to consider any new candidates. The present Council has no monopoly in brains, business ability or administrative capacity, and the occasional importation of new blood and fresh ideas is a necessity in every representative body.

Mr. James Fallows McNeal

came into prominence as a result of the proposed Pharmacy and Poisons Bill in 1926. He was opposed to several clauses which he considered detrimental to the chemist in business, and later represented those opposed to the Bill when he gave evidence before a Committee of members of Parliament. With the publication of the report of the Departmental Committee in 1930, Mr. McNeal commenced to study European and Dominion legislation for pharmacy, the result of which is his draft Bill for pharmacy. Mr. McNeal claims that a Bill on these lines will help to alleviate unemployment in pharmacy, create more situations for women in institutions, abolish drug stores, provide a statutory basis on which the dispensing of medicines can be regulated, and reserve to chemists the sale of B.P. and B.P.C. articles.

Mr. McNeal gained experience in pharmacy with Mr. W. H. Kemp of Stoke-on-Trent, Mr. Hooper of Bromley, Mr. Ordish of Balham, Mr. Atkins of Bayswater and G. Jolley & Co., of Curzon Street, Mayfair, W.1, before commencing business for himself in 1923 at Northwood, Middlesex. At the age of forty-five he has been engaged for twenty-nine years in pharmaceutical and public work. He has been a member of the Harrow Branch practically since its formation; he has served on the committee, was chairman in 1926 and then secretary, which office he still holds. He served on the Executive of the Ex-Service Pharmacists' League. Mr. McNeal was elected to the Ruislip-Northwood Urban District Council in 1927, and the knowledge gained especially as a member of the housing and building committee will be a special qualification in view of the Pharmaceutical Society's proposed building scheme. It was Mr. McNeal who exhorted delegates at the Holborn Conference not to accept the Pharmacy and Poisons Bill unless dispensing



MR. J. F. MCNEAL



was reserved to chemists. He is solely and actively engaged in retail pharmacy and seeks to represent the retail chemist, who has far too few such representatives on the Council. Mr. McNeal explains his policy as follows:—

Regarding educational policy, I consider a high entrance examination, followed by a minimum of three years' apprenticeship, should be designed to limit the number of entrants into pharmacy, and allow the craft to recover from the present surplus.

The building scheme appears to be too ambitious, and I would rather see a sum of money set aside to educate local bodies, clinics, public institutions and other bodies regarding the value of the services of the pharmacist and his qualification. Control of expenditure should mean economy in administration, and the Society should husband its resources in preparation for a Bill for pharmacy.

The time appears suitable for a reduction of the retention fee, in view of the fact that there is a good balance in hand, and the former rate of 21s. would be appreciated at the present

time. The annual shop-registration fee, which I personally opposed, should not be more than 10s. 6d., or alternatively should be based on the size of the businesses.

The Council's trading policy, it should be remembered, further depletes the pockets of members of the Society by the publication of books which are more or less compulsory to the chemist in business. Sentiment should not be allowed to stand in the way in dealing with the College of Pharmacy.

There has not been progress in pharmacy comparable to that made in other similar professions. Not many years ago, dentistry was not recognised; but while pharmacy has failed to take advantage of opportunities for advancement, dentistry has passed it academically, socially, financially and professionally. Great changes are taking place in pharmacy, and, increasingly each year, our craft is being exploited by those outside our ranks.

I therefore ask for a trial in office, knowing you will feel confident your interests are safe in the hands of a practising pharmacist.

A Discussion in Edinburgh

A MEETING of the Edinburgh and South-Eastern Scottish Branch of the Pharmaceutical Society was held on April 10, Mr. John Gilmour (chairman of the Branch) presiding. The chairman said the purpose of the meeting was to hear an address from Mr. John Keall (president of the Society), and they were also glad to welcome Mr. Adams, assistant secretary of the Society.

The President's Address

THE PRESIDENT said they would all be agreed that the world was in a condition of unrest, and they might equally say that during recent years pharmacy had been in a similar condition. It might be a fact that the Council had not been able to let the members know all they had been doing and all that had been thought of in regard to certain matters materially outstanding. They would have noticed that the Council had fixed the retention fee at the same amount as the former membership subscription. There had been considerable changes, some of them rapid, and these created circumstances which had caused anxiety and worry. He would like to make a note on the position of the Benevolent Fund. There was a way in which they might help the Fund. By entering into a deed of covenant to subscribe, say £1 1s. each year for seven years, the Council was enabled to recover the income tax which came to 6s. 1d. on the amount. This plan had been in operation for about a year and a considerable number had adopted this means of increasing the Fund. With regard to the Society's educational policy, all he would like to emphasise was that the Education Committee kept steadily in view that they must progress, that they should not do so too rapidly, and that they should not lag behind. With regard to the work of the Establishment Committee, the important matter was the question as to what they were to do for a new home for the Society. There had been much criticism and extensive correspondence in the pharmaceutical Press. He had been rather surprised to notice how much information some people seemed to have which was quite unknown to members of Council. It intrigued him to observe how it was assumed that the Council had made up its mind and that action was going to be taken rapidly. Mr. Keall then referred to events leading up to the purchase of the Brunswick Square site. In their present headquarters, he said, the increased activities of the Society were carried on under a very severe handicap and some extension was imperatively necessary. In the new site they would have ample scope for such activities and also provision for any possible developments in the future. They might not require the whole of the site, and such part as was not required for the Society's activities would be a revenue-yielding asset. There was no idea of putting up a palatial edifice in a grandiose manner but only a worthy building, reasonably required to accommodate the various departments of the Society's work. The Council, he remarked, did not want an architect to put up what might be an architectural monument for himself but an architect who would understand what the Society required and desired and

would submit plans to secure these as the primary consideration. It was obviously quite impossible at the present stage to come to any decision as to probable costs. So soon as the Council was in a position to come to some decision, however, the members would get all possible information. The Council was very conscious of its responsibility to the members. In connection with finance, he would refer them to the able speech by the treasurer (Mr. Neathercoat), who gave a full and clear account of the Society's finances, indicating that they were in a very sound position. After referring to the Journal, the Codex and "Martindale," Mr. Keall said they were now awaiting some development in fixing a registration of premises fee. He hoped this would be so carried out that there would be no question of taxing the members of the Society out of existence. The appointment of inspectors would also be an important piece of work. Chemists, he said, would meet inspectors on common ground. He could not conceive of an inspector as a person out to make trouble. They were now awaiting the report of the Poisons Board. It had been a very long job, and Mr. Linstead had had a large share in the deliberations, along with the other four pharmaceutical representatives. If they did ultimately get what they thought they were entitled to as registered men who were competent to carry out the functions of supplying medicaments to the nation, they would also have to face some sacrifice. In all such movements, when a settlement was reached some sacrifice was called for, as they had seen, for example, in the case of the dentists.

Mr. Adams said it was a great pleasure to have the opportunity of making personal contact with so many Scottish pharmacists. It had been suggested he should say something about education, but as they might wish to discuss other matters he would refrain from doing so in the meantime and later, if necessary, he would be glad to give information on any points that might arise.

Discussion

MR. WILSON (Burntisland) asked the following questions:—
(1) Is there any statutory obligation on the part of the Society to maintain a College of Pharmacy? (2) Is it a fact that there was a debit of more than £3,000 on working of the College last year? (3) Is it fair to other schools of pharmacy throughout the country that the Society's College should be subsidised to the extent of £3,000 per annum? (4) Could not present vested interests be conserved by the University of London taking over the working and complete management of the College of Pharmacy? (5) Would the expense of adequately housing the Society not be considerably lessened if the Society had not the College to provide for? (6) What are the advantages of the Society continuing the College of Pharmacy?

THE PRESIDENT said the answer to the first question was in the negative. The answer to the second question was in the affirmative. In regard to question (3), it would be admitted that education was subsidised all over the country. With regard to question (4), it had to be remembered that the University was interested in the granting of degrees but in nothing

beyond that. With regard to question (5), he did not think it would materially affect the cost even if they did not have to have a school in the new premises. It was the statutory duty of the Society to conduct the examinations, and for this purpose they required to provide laboratory accommodation and equipment. In regard to question (6), if they turned up the Society's Calendar and looked over the list of prizemen of the College they would be astonished to find how many of these men occupied high positions. Personally, he hoped the College would be continued.

MR. ABERCROMBY (Edinburgh) said he thought the Society should endeavour to secure a proper definition of what is the business of a chemist and druggist. With regard to the buildings, he wondered if the Council had explored the possibility of taking in adjoining property and extending the Bloomsbury Square premises. He noticed that the funds of the Society amounted to £135,000, and he wondered if nothing could be done in the way of setting up a superannuation scheme.

THE PRESIDENT said he agreed that the sooner they had a definition of the functions of a chemist and druggist the better. With regard to possible extensions in Bloomsbury Square, that had been thoroughly investigated and was impossible.

MR. DRUMMOND (Leith) asked if the president thought that the action of the Council had been sufficiently democratic in regard to the new buildings in Brunswick Square in view of the increased membership since the 1933 Act came into force. Was there any reason why a ballot had not been adopted?

THE PRESIDENT said as to the democratic position of the Society, they would shortly have an opportunity of exercising the franchise. They could change the whole Council in three years if they did not trust the men who represented them. In this country, however, they followed the principle of accepting the decision of the majority, and the minority accepted the position and endeavoured to make the best of it. He differed entirely from a certain person who had used the word "wangling." There was nothing of that nature in connection with any of their procedure.

MR. CURRIE (Leith) said he did not think they would find any other school of pharmacy subsidised in the same way as the Society's College in London. With regard to Brunswick Square, he had heard that the new building might cost as much as £500,000. Why should all this money be spent in London alone and the other centres throughout the country be semi-starved?

THE PRESIDENT said he stood to his statement in regard to subsidy as far as education was concerned. With regard to the cost of the building, it was quite impossible to say what the amount might be.

MR. DRUMMOND (Edinburgh) said with regard to subsidised schools, the point was that they did not derive any of the subsidy from the funds of the Pharmaceutical Society. With regard to the electoral system, they had been told that shortly they would have an opportunity of voting and they would be furnished with a list of names; but they would know little or nothing about these persons, and how could they intelligently exercise their vote?

THE PRESIDENT said what they were dealing with was really the question of the principle of subsidising. They did not need to worry as to where the subsidy came from. With regard to the electoral system, he might point out that candidates furnished them in the pharmaceutical Press with full particulars of their personal and professional history, and there should be no difficulty in knowing who and what they were.

MR. MARSHALL (Grangemouth) asked if Mr. Adams could tell him if it was true that the policy of the Council was to raise the educational standard to that of University training; if so, why should they spend money in building a school at Brunswick Square? He would also like to ask, seeing that now they compelled every qualified person to pay an annual retention fee, whether something could not be done for the relief of young pharmacists, many of whom were unemployed, and whether some portion of the £18,000 transferred to the building fund could not be used to pay the retention fee of these persons?

MR. ADAMS said it was true that education was being placed on a university level. The policy of the Council was to make it possible for a pharmaceutical student to take a university degree at the same time as he was studying for the Pharmaceutical Chemist or Chemist and Druggist qualification. This was really one of the reasons why it was desirable that the Society's College should be continued. The College of Pharmacy was not merely a teaching institution. It was closely linked up

with the other interests and operations of the Society. They had to remember also that the College staffs did a good deal by way of advice and information to members of the Society by furnishing replies to inquiries. To discontinue the College would therefore deprive the members of the Society of this valuable scientific information. They had also the question of research departments, which no member of the Society had ever suggested should be abandoned. If the Society discontinued its College there would be no school of pharmacy of university standing in London. That was a very serious matter, considering the trend of pharmaceutical education in a university direction. Mr. Marshall's suggestion that the £18,000 should be applied to the payment of retention fees for unemployed pharmacists was a very difficult question. Men were going in and out of employment. They might, for example, pay a retention fee in the month of January and the person in question might be in employment for all the remaining part of the year. However desirous anyone might be to carry out such a scheme, on full consideration it would be found to be quite impracticable.

MR. MITCHELL (vice-chairman of the Branch), in moving a vote of thanks to the president and Mr. Adams, said their minds had been greatly enlightened by the president's explanations with regard to the new home of the Society in Brunswick Square. He had been twice round the Square recently, and he must frankly say he thought they could not have secured a more suitable place, so easily reached from any railway centre. In the name of the Branch, he desired to tender to the president their sincere thanks for the service and work he had done for the Society during his term of office.

MR. WILSON (chairman of the Board of Examiners in Scotland), in seconding, said he wished to thank the president and Mr. Adams for the information they had given with regard to the College of Pharmacy.

THE PRESIDENT and MR. ADAMS acknowledged the vote of thanks.

Executive Meeting

A meeting of the Executive of the North British Branch was held on April 10, Mr. David Harley in the chair. The chairman said he had great pleasure in extending a cordial welcome to the president on his visit to Scotland. He would like also to extend a word of welcome to Mr. Adams, the assistant secretary. The president suitably replied. After the annual accounts and evening meetings had been dealt with the terms of an agreement entered into between the managers of the Royal Public Dispensary and the governors of the Heriot-Watt College were mentioned. The chairman said the Executive had to thank the committee under the chairmanship of Mr. H. P. Arthur who had successfully carried out this long-desired amalgamation. It was reported that the new Examination regulations had received the approval of the Privy Council. Other matters dealt with included reconstruction of premises at 34 and 36 York Place, local organisation, British Pharmaceutical Conference, the Society's Benevolent Fund, reservation of dispensing, post-graduate lectures, and the Pharmacy and Poisons Act. It was reported that the attention of the police had been drawn to the prevalent sale of solutions of lysol in a manner calculated to suggest that they were genuine lysol, whereas they were dilute solutions, the use of which created a public danger. Proceedings had been taken by the Edinburgh police, and there had been several prosecutions for the sale of lysol by unqualified vendors. It was agreed that the next election of Executive take place on June 12.

Diploma in Biochemical Analysis

At the April examination of the Pharmaceutical Society of Great Britain for the diploma in biochemical analysis thirty candidates entered, of whom the following seventeen passed:—Birtwistle, J.; Burlinson, H.; James, F. W.; Jillings, B. V.; King, T.; Macnab, R. H.; Medhurst, G. A.; Patch, L.; Rees, T. G.; Roberts, R. R.; Soulsby, J. W.; Waite, R. S.; Waters, S. A.; Whiteley, J. A.; Wien, R.; Willey, H. R.; Woods, Marian A.

SUGAR-BEET.—The Ministry of Agriculture and Fisheries has issued as Bulletin No. 93 a useful publication on "Pests and Diseases of the Sugar-Beet." Copies (1s. 6d., plus postage) are obtainable from H.M. Stationery Office, Kingsway, London, W.C.2.

Trade Notes

JUBILEE POWDER PUFFS.—Solport Brothers, Ltd., 184 Goswell Road, London, E.C.1, have sent for our inspection a range of their Nerissa Jubilee powder puffs. These lines are shown in the accompanying illustration. They fully maintain the company's reputation for high-class articles. The handkerchief



puffs in Margaret Rose and Jubilee Blue colours are available in two sizes, and the attractive red, white and blue handkerchief puff with tinted down centre is offered in five different designs. In addition to these styles of handkerchief puffs, Nerissa Snowball and Bath Powder Puffs are available in the two jubilee colours.

DANIA sulphur candles are advertised in this issue by Richard Daniel & Son, Ltd., Mansfield Road, Derby.

VIGGORMALT.—The distributors of Viggormalt (for making home-brewed ale or stout) are Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1.

SADKO BEAUTY PREPARATIONS, LTD., 19 South Molton Street, London, W.1, will send on request details of a bonus offer available in respect of their products.

SUN TAN OIL in bulk quantities is obtainable from G. E. Thurley & Son, Unity Works, Latimer Road, London, E.7. A sample will be sent on application.

BONUS OFFER.—Chappell, Allen & Co., Ltd., 136 London Wall, London, E.C.2, give details on another page of this issue of a bonus offer in connection with Camelia soluble sanitary towels.

MUD BATHS AT HOME.—Charles Zimmerman & Co., Ltd., St. Mary-at-Hill, London, E.C.3, are the suppliers in this country of Salhumin mud extract bath for the treatment of rheumatism and similar affections. Salhumin is in the form of a powder, three packets, each sufficient for a bath, being enclosed in a carton. When dissolved in hot water the curative properties



are stated to be similar to those of the natural mud bath, but devoid of the undesirable effects of natural mud.—Another interesting preparation which is being offered by Messrs. Zimmerman is Calbrolact. This is described as a molecular combination of calcium and bromide in tablet form and to be specially suitable for long-continued bromide therapy. The tablets are packed in bottles of 50 (standard) and 1,000 (dispensing).

PARFUMERIE DE FLEURY, Rawdon, Leeds, give details in their advertisement in this issue of a competition they have organised in regard to Lady Gay Jubilee Bouquet.

NURONA sun tan cream, a product of James Woolley Sons & Co., Ltd., Victoria Bridge, Manchester, is to be nationally advertised during the summer months.

Nobby's EXTRACT.—Nobby's Products, Ltd., Cheapside, Hyde, will send a sample of Nobby's extract for making home-brewed ale and stout to any chemist who writes for one.

THE COUNTY CHEMICAL CO., LTD., Bradford Street, Birmingham, 5, have issued an illustrated catalogue of their domestic specialities. A copy of this list will be sent to any of our subscribers on request.

ILFORD, LTD., Ilford, have published an illustrated booklet on Selo films. The text and the illustrations are most instructive and a copy will be appreciated by any amateur photographer. On request supplies will be sent to chemists for counter distribution.

J. C. ENO, LTD., 160 Piccadilly, London, W.1, in a coloured inset in the advertising pages of this issue, remind chemists that with the large number of persons visiting this country in connection with the Jubilee celebrations, that period will be an appropriate one for making displays of world-famed proprietaries. Messrs. Eno have designed two special showcards for this purpose, and they will be sent to chemists on application.

HALEX TOOTHBRUSHES.—British Xylonite Co., Ltd., Hale End, London, E.4, have added a new toothbrush to their range. It is to be known as the No. 9, and completes the trio of "bob brushes"—the short head, the long head and now the



prophylactic. Every Halex toothbrush is being packed in a cellophane wrapper, which shows the brush and allows it to be felt without being touched or soiled. The company has also introduced a new aluminium showstand, which should be of great advantage in making a counter or window display.

A NEW PREPARATION.—E. Merck, Darmstadt, has introduced a new preparation under the name Doryl. Writing to us regarding this the firm state: "Doryl Merck is carbamoylcholine chloride; it is an exceptionally stable non-hygroscopic substance. It has the considerable advantage over simple derivatives of acetylcholine, inasmuch as it is active when absorbed by the digestive canal. Aqueous solutions are not affected by heat. . . . The poisoning phenomena is the same as with acetylcholine. The antidote is atropine, which paralyses the parasympathetic nerve endings. It may be administered orally, rectally, subcutaneously or electrophoretically. The dose is orally, 0.001-0.004 gm.; rectally, 0.005 gm.; subcutaneously 0.0001-0.00025 gm." Supplies of this preparation are obtainable from H. R. Napp, Ltd., 3 Clement's Inn, Kingsway, London, W.C.2.

ERGOMETRINE.—Reference was made in the *C. & D.*, March 23, p. 363, to the discovery of a new ergot alkaloid to which the name Ergometrine had been given. Four preparations of the new alkaloid are now being issued by Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1. Two are for oral administration, namely, Tabloid ergometrine, 0.5 mgm. and Wellcome solution of ergometrine, 0.5 mgm. in 2.5 c.c. Of the others, Tabloid hypodermic ergometrine, 0.25 mgm. is for intramuscular injection; and Tabloid hypodermic ergometrine, 0.05 mgm. is for intravenous administration.—When Dr. W. Beebe, the oceanographic naturalist, established a new depth record during August of last year, there was included in the equipment of the bathysphere in which the descent was made a Tabloid first-aid outfit, and this has recently been returned as a souvenir to the suppliers, Burroughs Wellcome & Co. (U.S.A.), Inc.

Births

Notices for insertion in this column must be properly authenticated.

McDOWALL.—On April 12, the wife of Ronald McDowall, chemist and druggist, St. Andrews, of a daughter.

Marriages

MILLER—STAPLES.—At St. John's Church, Guernsey, recently, Geoffrey Thomas Miller, chemist and druggist, to Emily B. Staples.

WOOD—JONES.—At Carmel Baptist Church, Pontypridd, on April 23, John Herbert Wood, M.P.S., pharmacist, Fulham Road Cancer Hospital, London, S.W., youngest son of Mr. U. Wood and the late Mrs. Wood, Nottingham, to Nesta, only daughter of Mr. and Mrs. Tom Jones, Cartref, Pontypridd.

Silver Wedding

HIRST—DEAN.—At St. James's Church, Slaithwaite, Yorks, on April 27, 1910, by the Rev. H. H. Rose, M.A., Joseph Luther Hirst, M.P.S., youngest son of the late Mr. Joseph Hirst, Ashfield, to Clara Gertrude, youngest daughter of Dr. Edwin Dean, J.P., Lewisham House, Slaithwaite. Present address: 23 Eastfield Drive, Sefton Park, Liverpool.

Deaths

CHASE.—At "Abbotsford," 44 Pope's Avenue, Twickenham, on April 20, Mr. Thomas Chase, Ph.C., aged eighty-eight. Mr. Chase was born in Holborn, and followed the career of his father. He passed the Major examination in 1870, and ultimately became the proprietor of his own business at Five Ways, Edgbaston, Birmingham, which was latterly better known as Thomas Chase & Co. The funeral took place at Epsom on April 24.

CRISFORD.—The funeral of the late Mr. F. J. Crisford, chemist and druggist, Eastbourne, whose death was announced in our issue of April 13 (p. 457), took place on April 10, when there was a large attendance. Mr. D. Marchant, secretary of the Eastbourne Pharmacists' Association, writes:—

Mr. Crisford had travelled a great deal. . . . He was a wonderfully well-informed man, a keen naturalist, a real expert at discovering birds' nests, and delighted in the song of the nightingale, which he would travel miles to hear. His genial, kindly personality endeared him to everybody; he just radiated happiness, and his presence was always looked forward to. . . . He was exceptionally keen in matters pharmaceutical, and never missed a meeting unless unavoidably prevented. His active record is 174 out of a possible 204 meetings, and his absences were mostly due to illness. He leaves a widow and one son to mourn his loss.

GALE.—At 36 Fairdene Road, Coulsden, on April 16, after a brief illness, Mr. Dudley Gale, a director of Gale, Baiss & Co., Ltd., manufacturing chemists, Canterbury Road, London, E.15. The formation of Gale, Baiss & Co., Ltd., from two well-known London houses was referred to in our issue of December 8, 1934, with a brief account of the respective histories of Gale & Co., Ltd., and Baiss Brothers & Co., Ltd. We much regret to have to announce the death of Mr. Dudley Gale, who was an original member of the board of directors.

McMILLAN.—In an Ayr nursing home, on April 9, Miss Elizabeth Muirhead Jackson McMillan, M.P.S. Miss McMillan qualified in 1913.

MELLOR.—On April 14, Mr. William Gilbert Mellor, chemist and druggist, Warwick, aged sixty.

NICHOLSON.—At 610 Welbeck Road, Walker-on-Tyne, on April 20, Mr. John Nicholson, aged sixty-six. Mr. Walker served his apprenticeship in York, starting on his own account at Walker thirty-eight years ago. He leaves a widow and a daughter.

YOUNG.—At Aberdare, on April 8, Mr. John Arthur Young, chemist and druggist, aged sixty-six.

Personalities

MR. FRANK ERNEST ROBINS, chemist and druggist, has been granted permission to practise in Jersey.

MR. A. J. BANNISTER has been appointed assistant advertising manager of Bob Martin, Ltd., Southport.

MR. WALTER S. TAYLOR, chemist and druggist, Hoylake, Wirral, has been elected president of the local chamber of trade.

MR. KERSHAW (Kodak, Ltd.) recently addressed the West Kent Chemists' Association on "The Technical Side of Photography" as it affects the ordinary routine of a chemist's business.

COUNCILLOR S. TAYLOR, J.P. (Thos. Tomlinson & Son, chemists' valuers, 46 Victoria Street, Manchester, 3), has been re-elected chairman of the Marple Urban District Council for a second year.

At the annual meeting of the Federation of British Industries, on April 10, Sir Francis Joseph was elected president. One of the new vice-presidents is Mr. J. L. Ferguson, joint managing director of Lever Brothers, Ltd.

MR. H. RIDLEY, chemist and druggist, Ipswich, president of the Suffolk Kennel Association, took two first and two second prizes at the recent King's Lynn dog show, and both first and second prizes at the Suffolk Kennel Association show at Ipswich, with his sealyhams.

MR. ALEXANDER CATTO, chemist and druggist, managing director of A. & N. Catto, Ltd., Ilford, has retired from the chairmanship of the local chamber of commerce after several years' service. Mr. Catto has been elected a vice-president with an expression of thanks for his services, especially those in connection with the reduction of rating assessments.

Wills

ALDERMAN EDWARD THOMAS, J.P., Wyresdale, Fieldhead Avenue, Rochdale, Lancs, chemist and druggist, who died on June 2 last, aged sixty-nine, left estate gross value £11,127, with net personality £9,647.

MR. HAY GRANT MCKILLIGIN, Edenbank, Newton Street, Blairgowrie, Perthshire, and formerly of Cullen, Banffshire, chemist and druggist, who died on January 23 last, left personal estate in Great Britain valued at £3,377.

Coming Events

Sunday, April 28

Pharmaceutical Society of Great Britain, North Staffordshire Branch. Church Sunday.

Monday, April 29

National Pharmaceutical Union, Reigate, Redhill and District Branch, Warwick Hotel, Redhill, at 8.15 p.m. Address by Mr. S. J. Stearn (vice-chairman of the N.P.U.). Supper follows.

Tuesday, April 30

Pharmaceutical Society of Great Britain, Manchester and District Branch, Lawn Tennis Club, Piccadilly Café, at 8.30 p.m. Annual meeting. Opening tournament at Platt Fields, on May 1, at 2.30 p.m.

Wednesday May 1

Liverpool Chemists' Association. Visit to Port Sunlight.

London College of Pharmacy, Avondale Hall, 8 p.m. to midnight. Dance, tickets 2s. 6d. single, 4s. double.

National Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Annual general meeting.

Photographic Dealers' Association, Hotel Russell, Russell Square, London, W.C.1, 10.30 a.m. to 1 p.m. and 2.15 p.m. to 5 p.m. Annual meeting.

West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society, 17 Bloomsbury Square, London, W.C.1, at 9 p.m. Candidates for the forthcoming Council election have been invited to speak.

Telegrams : "Atolene Sedist, London."

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H/64. Dr. Paul's nail unguent	G/23. Kisby dry shampoo
M/23. Ergophane	A/18. Sira immersion oil

THE
CHEMIST AND DRUGGIST

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NO. 2881

Import Duties "Free List"

WHEN H.M. Treasury is giving effect to the recommendations of the Import Duties Advisory Committee by the issue of an Order, whether it be an additional duty or an exemption providing for free import, it would be helpful to all concerned if they made it quite definite as to the class and description of goods affected. Certainly such general terms, not necessarily misleading, as that used in Exemptions No. 7 Order, should be avoided or, in this instance, it should have been accompanied by a list of the solid natural resins which were, in the opinion of the authorities, covered by that general description. There may or may not be any border-line cases and it may not be a difficult matter for the trade to compile a list of the products that, in their opinion, became free imports under the Order; it is, however, quite another question whether Customs would approve such a list. For the instruction of their officers at the ports, Customs do issue lists of products in such cases as that referred to and undoubtedly they have done so in this instance, but this information is not available to the trade for their guidance. We see no good reason why it should not be published; it would facilitate business and be the means of avoiding disputes between the department and importers.

Floral Concretes

It is not surprising that applications have been made to the Import Duties Advisory Committee for a further number of essential oils and floral concretes to be added to the Free List and allowed free import. Such applications, particularly when they are the subject of costly products, are apt to disturb markets and inflict heavy losses on importers. In the past we have been critical about the delay between the issue of the notice of receipt of applications and the publication of the Treasury Order giving effect to the Committee's decision thereon. We are satisfied that, in the best interest of trade generally, this intervening period between the publication of the applications and the Treasury Orders, inevitably one of uncertainty and restricted demand in the markets, should be as short as possible. Yet, if the Treasury are mindful of the welfare of the trade they should give due consideration to the effect on spot values of comparatively sudden change in the rate of duty charged on an imported product, or the reaction in the market when the general *ad valorem* duty is lifted from a commodity, supplies of which have to be imported. The official notice on floral concretes was published in the middle of April and the Treasury Order making them free imports, if such action is recommended by the Advisory Committee, will be issued any time after May 2. Merchants, who have to carry adequate supplies of these products, which cost up to 50s. per oz., on which they have, of course, paid duty, may be left to write down their stocks to the duty-free level; there is no "drawback."

on re-export of goods liable to the 10 per cent. duty. We are of opinion that, in such instances, the trade would welcome the early issue of the Treasury Orders giving the Advisory Committee's decisions, but that their operation should be post-dated three to six months in order to allow those firms holding duty-paid goods time to clear their stocks. The removal of the duty in these instances is proposed solely for the purpose of aiding industry and particularly our export trade in manufactured goods. It is manifestly unfair that importers should have to write-off as a bad investment the import duty paid on their stocks.

Question Time in Edinburgh

HESITANT as we might have been, in animadverting on questions and answers, we are encouraged to return to the subject after a perusal of the report of Mr. Keall's address to Edinburgh chemists (see p. 510). It will be observed that the president was subjected to a series of sharp questions after his official statement as to what the Society is doing for the benefit of pharmacy and so forth. We commend to the electorate the *questionnaire* put to Mr. Keall by Mr. Wilson (Burntisland). The art of heckling is perhaps seen at its best in Scotland, but there is no reason, we imagine, why the heckle should not be used in the South to advantage in times of dire necessity. In reply to the question as to whether or not there was any statutory obligation on the part of the Society to maintain a school of pharmacy Mr. Keall said "No." Yet the school costs members of the Society £3,000 a year. Why? Because schools are subsidised all over the country, says Mr. Keall. But, we may suggest, surely not by small communities like the Pharmaceutical Society, whose members may ruefully ask what proportion of their annual tribute is earmarked not only for this subsidy but for the pharmacological laboratories and for incursions into commerce which we refrain from discussing now. With regard to Mr. Wilson's final question as to what were the advantages of the Society continuing the College of Pharmacy, Mr. Keall referred to the list of prizemen who had reached positions of eminence and had exercised a great influence in the development of pharmacy *in its highest branches*. Surely those who are likely to be so brilliant do not need a subsidy from the rank and file of pharmacy as it is to-day.

Further Sacrifice Forecast

There is only one other point in Mr. Keall's address at Edinburgh to which we should like to refer. He is reported to have said that if chemists did ultimately get what they thought they were entitled to as registered men they would also have to face some sacrifice. "In all such movements, when a settlement was reached, some sacrifice was called for, as they had seen, for example, in the case of the dentists." We direct special attention to this statement of Mr. Keall's as we have failed to notice any mention of it in the official report in the Society's Journal. Meanwhile we imagine it would be desirable for those who vote next month to follow this matter up lest by chance chemists may suddenly find themselves one of these days in the unhappy position of having to admit, shall we say, scores of unregistered persons to their ranks in order that registered chemists may obtain some hypothetical benefit. At the conclusion of the meeting Mr. Wilson, who is to be congratulated on his *questionnaire*, gallantly seconded the vote of thanks to Mr. Keall, who had withstood the onslaught with his customary good humour, honesty of purpose and agreeable personality which have helped to make him one of the most popular presidents of recent years.

Use of the Title "Doctor"

A RECENT prosecution (an unsuccessful one, by the way) of a person practising one of the "outside" branches of surgical treatment on the allegation of falsely pretending to be a qualified medical practitioner has attracted attention in legal circles. It is being suggested that legislative measures should be taken to restrict the use of the title "doctor" to such persons as are entitled to use it by virtue of a degree obtained in some branch of learning—law, medicine, philosophy, science or another. The suggestion is that the term has become so universally applicable to medical men that even in their case the public are unable to appreciate the extent of their qualifications; and incidentally that the vague use of the title "Dr." often conveys the impression that a man is a qualified medical practitioner, whereas (as in the case referred to) he admittedly is not.

Physicians, Surgeons and Others

We confess that we have often felt disposed to contrast the habit of many medical men who are merely licentiates with a "scrape-through" pass of dubbing themselves "Dr." on a bold brass plate, as soon as they start practice, with the professional dignity of Fellows of the Royal College of Surgery who put plain "Mr." on their door-plates. Unfortunately the habit of calling every medical man a doctor has grown to such an extent that even coroners and magistrates are apt to apply the term indiscriminately. Chemists, too, are sometimes offenders in this way. "Call in the doctor" ought to give place in their case to "Send for a medical man": if this were carried out systematically it would go a long way towards avoiding the necessity now being urged for a short Act of Parliament requiring every medical practitioner to expose on his brass plate either no degree at all or else the precise degrees he holds. If any such statute were enacted, it would be necessary to restrict the publication of these degrees to such as have been conferred by British universities unless the actual foreign origin of the degree was stated in each case. It cannot be to the public benefit that a man possessing, let us say, an American doctorate not valid for the practice of medicine or surgery in this country should be able to put out a brass plate inscribed "Dr. So-and-so" and practise massage or some other adventitious aid to medicine or surgery; some people may in consequence become imbued with the idea that he can treat them for any complaint, or that he is really a more eminent person than his qualifications indicate.

Gargles and Gadgets

IN a recent issue of "The Journal of the American Medical Association" (103, 11, 831), Drs. William Snow and J. E. Stern profess to have discovered that gargling is a waste of time and money. This will be joyful news for Smith minor, who will be able to ejaculate "Garn!" (or whatever the current expression is) when his schoolmaster enjoins pharyngeal hygiene. The private in the Army is, of course, in a rather different position. But let us hear what the learned authors of the brief monograph cited have to say. They write:—

"For these observations, subjects used a thin liquid suspension of barium sulphate while lateral x-ray views of the head and neck were made. The first methods included (1) violent gargling, (2) gentle gargling and (3) tilting the head backward and allowing the suspension to run as far backward as possible without gargling. A study of the films showed that with all these methods the tongue is firmly pressed against the soft palate in such a position that the liquid cannot reach the anterior faecal pillars. Occasionally if the subject interrupted the procedure to take a breath of air a small stream of the mixture leaked backward and then had to be swallowed. Further observations were made in which gravity irrigations were used with the head and neck flexed. The fluid ran from a container placed 18 inches above the mouth through a length of rubber tubing and a narrow irrigating tip. Study of the films showed that the hypo-

pharynx, oropharynx and nasopharynx were thoroughly irrigated in fact, frequently some of the fluid ran out of the nose."

We may begin to wonder whether the six pages of gargles in "Pharmaceutical Formulas," Vol. I, will perchance be scrapped when the next edition is prepared! The more important aspect of the matter is: what is to take the place of a method of local application sanctioned by centuries of clinical experience? I can readily be understood that makers of surgical apparatus in the United States will triumphantly produce innumerable gadgets for ensuring theoretically perfect gravity irrigation backed by sentences from the passage we have just quoted. Whether the efficacy of these appliances will be in direct or inverse proportion to their cost remains to be seen; but we are inclined to think that surgical instrument makers in this country will await confirmation of the findings of Drs. Snow and Stern before committing themselves too deeply in this matter.

Sandalwood Oil Investigation

A NOTEWORTHY contribution to the chemistry of this important oil appears in the current issue of the "Journal of the Chemical Society" (1935, 309) by Bradfield, Penfold and Simonsen. Penfold showed, in 1928, that the essential oil of *Santalum lanceolatum* contained a primary sesquiterpenic alcohol, $C_{15}H_{24}O$, which is levorotatory and yields a crystalline allophanate melting at 114° . Preliminary experiments showed that this alcohol is closely related to the isomeric santalols present in the oil of *Santalum album*. Before studying the exact constitution of this alcohol, it was thought well to elucidate the structure of the di-cyclic alcohol, α -santalol, that of β -santalol having been definitely settled.

The separation of the isomeric santalols is a matter of considerable difficulty. Semmlev, as the result of about twenty fractionations, has recorded an optical rotation of $+1^{\circ}$ for α and -42° for β -santalol. Paolini and Divizia purified the alcohols by preliminary fractionation and fractionation of the strychnine salts of the hydrogen phthalates. The experience of the present authors has shown that this method is of little value except as a means of final purification since the strychnine salts form mixed crystals. They have now, by repeated distillation of Mysore oil under diminished pressure in carbon dioxide, with a specially designed still head, obtained the two santalols in what they believe to be a state of purity. α -santalol has the following characters:—

Boiling point at 14 mm. = $166-167^{\circ}$
Specific gravity at 25° = 0.9770
Refractive index at 25° = 1.5017
Optical rotation (5461) = $+10.3^{\circ}$

Apart from the rotatory power, these values are in close accord with those recorded by the chemists above mentioned. The strychnine salt of the hydrogen phthalate was found to melt at $144-145^{\circ}$, and not at 155° as stated by Paolo and Divizia. A fraction of β -santalol was obtained, boiling at $177-177.5^{\circ}$ at 17 m.m., having an optical rotation -69.2° , but on oxidation with percamphoric acid only 1.86 ethylenic linkages were indicated. On purification through the strychnine salt of the hydrogen phthalate, a percamphoric acid value of 1.97 was indicated, and the characters of the β -santalol so prepared were as follows:—

Boiling point at 17 mm. = $177-178^{\circ}$
Specific gravity at 25° = 0.9717
Refractive index at 25° = 1.5100
Optical rotation (5461) = -87.1°

It is therefore evident that previous specimens of this alcohol must have been highly contaminated with α -santalol. As a result of the study of the constitution of santalol, the authors consider that β -santalol is a derivative of cadalene. Ruzicka and Stoll consider that α -santalol is a derivative of eudalene, but the present authors that it may equally well be considered to be a derivative of cadalene.



THE essence of good window dressing is balance. The chemist who has a supply of modern display accessories such as stands, cubes, glass circles or ovals, obtains balance more easily than the chemist who has to display his goods upon glass shelves, supported by brackets and iron standards. The first thing to do when dressing a window with fittings of the pedestal or cube type is to decide beforehand what to show in the window. Take the bottom first; commence with the centre, and make a display of the lines considered to be most important. The public looks invariably to the centre of the window first, and therefore it is advisable to make a show of what might be termed a good attractive selling line. If the goods are in cartons or boxes, they can be neatly arranged without the use of stands, as they usually make an attractive show in pyramid form. If bottled goods are being shown, it may be necessary to use one or two small pedestal stands and glass shelves to enable the display to reach the required height. Too much space should not, however, be taken up with this centre display, for it is often easier to fill in than to take away.

A Simple Layout

Having made the centre show, next make a display on either side, and try if possible to have goods that are somewhat similar in shape or pack. The first illustration is a suggestion of a simple layout. In the centre are arranged bottled goods—in this case, in three tiers. It depends upon the height of the window and how many shelves are used as to the amount of space available between the floor and first shelf. On either side are packet goods in pyramid formation. This simple method of displaying merchandise is not only neat, but it "binds" and the goods are not so liable to collapse. The spaces between each set of goods should then be filled in with neat showcards. Another simple method of displaying goods is on standard glass shelves. Each tier is raised on boxes covered with crêpe paper, of a colour to tone with the pack. Should the packs vary in colour, it is advisable to cover the boxes with white or black paper. This method can be adopted for numerous articles, such as cartoned goods, baby foods, bath salts, toilet rolls, etc.

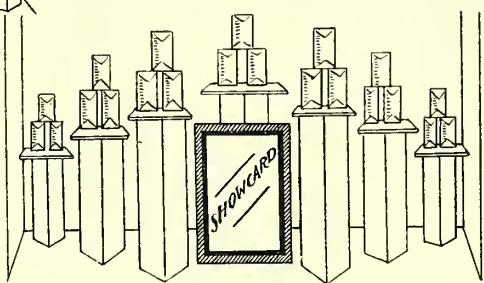
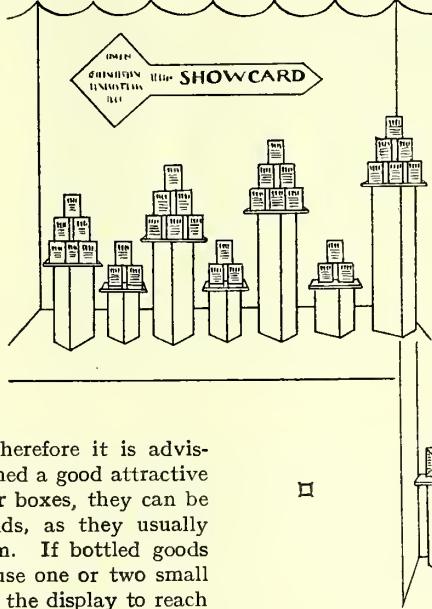
Goods Easily Removed

The advantage of arranging goods in this manner is that each class is a separate display. Should one of them not sell well, it can be easily removed, and replaced by another line. Also if it becomes necessary to draw from the window the goods are easy to get at. Goods arranged in this manner can be removed, without the window appearing disarranged. From a pyramid of fifteen—five at the base—five can be removed, one from each tier, still leaving a pyramid, which can be made up again when further supplies are available. Each separate item should be priced and a small showcard introduced, but

Balance in Window Display

By H. CUNDALL

PRESIDENT, LONDON
BRANCH, NATIONAL
DISPLAY ASSOCIATION



care must be taken that the showcard does not unbalance the display. Most chemists' windows do not exceed 2 ft. 6 in. in depth, and the suggested layouts have been based on this size. For the chemist who desires to make an open display, it is necessary to utilise several stands and glass shelves. The second illustration gives some ideas on arranging a display of the open type, using cubes as stands. The rather unusual shaped showcard in the centre breaks the bareness. The showcard is suspended above the display. It should be of some stout board, otherwise it will warp. The third illustration shows a somewhat different type of open display in which cubes have also been used. These can be either of cardboard, wood, or metal, and painted or covered to tone with the goods being shown. Effective colour schemes can be made by covering these cubes with one of the decorative papers. This type of display fitting is seldom used in pharmacies in this country but is often met with on the Continent. The general opinion seems to be that cubes allow only the minimum amount of goods to be displayed. They are certainly most effective where one class of goods is being shown. An overcrowded window never hits directly, while the mind appreciates the layout arranged on simple geometrical lines. Neatness is essential in every class of window display, for it gives quality to the merchandise, and also to the shop in which the display is arranged. With this essential factor in mind, many of the leading manufacturers have greatly improved the style and design of their packs. This improvement has made the goods far more attractive in appearance, and therefore a better selling proposition. What is termed as the "display outer," now universally used for so many packed goods, especially chemists' lines, allows for a more effective method of display, with the minimum amount of trouble in arranging. Goods packed in this manner are very useful for making a counter display.

Scientific and Industrial Research Report

THE nineteenth report of the Committee of the Privy Council for Scientific and Industrial Research, covering the period October 1, 1933—September 30, 1934, has been issued (price 3s.) by the Stationery Office. As is customary, the report of the Committee is followed by the report of the Advisory Council, a summary of work done at the National Physical Laboratory, notes on that of affiliated research associations, and appendices. On this occasion the report contains little of interest to pharmacy and the drug and chemical industries. Work has been continued, in the departments of the National Physical Laboratory concerned, on the fundamental standards of length, mass, electrical resistance and current, candle-power, temperature, and x-ray intensity. In the metrology department final measurements of the length of the metre in terms of the wavelength of the red radiation from cadmium have been published. A redetermination of the ratio of the pound and kilogram has been made in connection with the decennial comparisons of the imperial and parliamentary standards of mass. Further observations with the ampere balance have been made, including a complete re-measurement of the dimensions of the coils of the balance. Work has been continued on the absolute measurement of resistance by means of the Lorenz machine and by the Campbell method.

Improved Thermometers

The improvement of the performance of open-scale mercury thermometers has received further attention; records of the movement of the meniscus have been obtained by means of cinematograph films, which show that in stems of less than 0.07 mm. bore the behaviour of the meniscus is likely to be unsatisfactory. Several improvements have been made in the equipment for testing precision thermometers. A new low-temperature testing bath has been installed, which enables the Laboratory to give corrections to thermometers at points below 0° C. to a greater degree of accuracy than heretofore. Various plastic materials, including styrol, vinyl acetate, glyptal and ketone-formaldehyde resins, and benzyl cellulose have been examined with a view to their possible application for dentures. Of these materials styrol resin appears to be most promising as regards tinting, moulding characteristics, low density, surface hardness and a negligible water absorption. Synthetic resins for other purposes have also been a subject of research. Investigations at the Laboratory during the year have been devoted to the preparation of an amalgam, made with a dental alloy and pure mercury, which would show no initial contraction on setting but an expansion of not more than 4μ . This object has been achieved by the careful standardisation of all processes accompanying the preparation of the amalgam. Tests have been carried out packing first steel "teeth" and then composition "teeth." Several conclusions have been drawn from the results obtained which are of practical importance. In particular, mixing the alloy and mercury in a mortar is undesirable, since the pressure on the pestle and the time of mixing determine very critically the subsequent setting of the amalgam.

Research for the Associations

Turning to the associations, the systematic investigation of the properties of rubber continues to receive attention. The work of the action of organic liquids on vulcanised rubber, which has been carried on for some years past, has recently produced interesting results indicating the lines to be followed in compounding rubbers to resist the swelling and weakening action of organic liquids such as petrol, mineral oils, benzole, etc. The work on gelatin has now reached a stage where the information obtained in this foundational work can be applied to industrial problems. Commercial gelatins as supplied to the trade vary considerably in their physical properties, and the present investigation is designed to find out to what extent these varying properties affect the quality of the finished product. The process of manufacture has been studied at the same time, particularly with reference to the

effects of temperature, time and speed of beating. The assistance of the Association of British Chemical Manufacturers and of Imperial Chemical Industries, Ltd., in various problems is acknowledged; and it is suggested that the industries concerned in scientific research of the kinds dealt with in the report and its bibliographies may with advantage extend the scale of their operations.

Qualifying in the Victorian Jubilee Year

By Cambria

IN the year 1877 it was decided I was to become a chemist; and in order to qualify for this job it was necessary that I should become an apprentice for four years (indoors) to the nearest village chemist—premium £60. He was a bookseller as well, and with the weekly parcel from London he would occasionally order the *C. & D.* The only books in use were Gray's Supplement, the British Pharmacopœia, 1867, and "Selecta e Prescriptis." Though in business before 1868 and rather backward in learning of a technical nature, my employer took some interest in his shop rounds, made some of the tinctures, and saw that not only the bottles were bright and clean but also the contents. This was the only chemist who had a tincture press in my experience of twenty years with many chemists in London and the provinces. There was a private school in the village, and the elderly schoolmaster (who was M.A. and M.D.) managed after some years of part-time study to get some of us through the Professional Preliminary examination. I was one of them, and got my first certificate from Mr. Elias Brembridge.

In the early 'eighties I was packed off from the village life of Wales (knowing more of my native language than English) to try my luck in London. Living with friends in the City I was fortunate, through a traveller, to get a job as junior with Mr. Cassie of Newgate Street. I was not there very long, but it gave me an insight into putting up stock and making various preparations which I have not seen made since. Hours were easy compared with the next job's. I had a longer period still in North London, 8 a.m. to 10.30 p.m., Saturdays 12, Sunday 6 to 10.30 p.m., and no half-day.

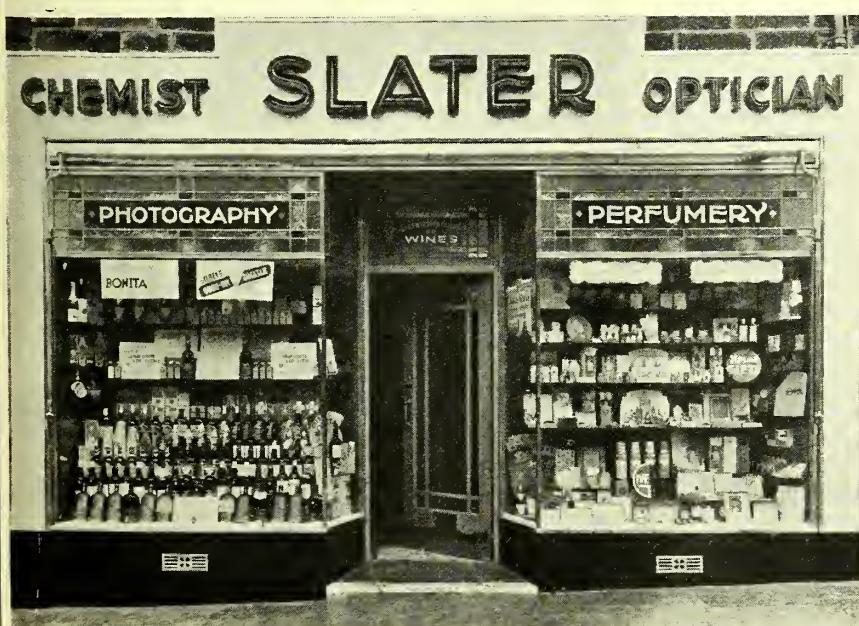
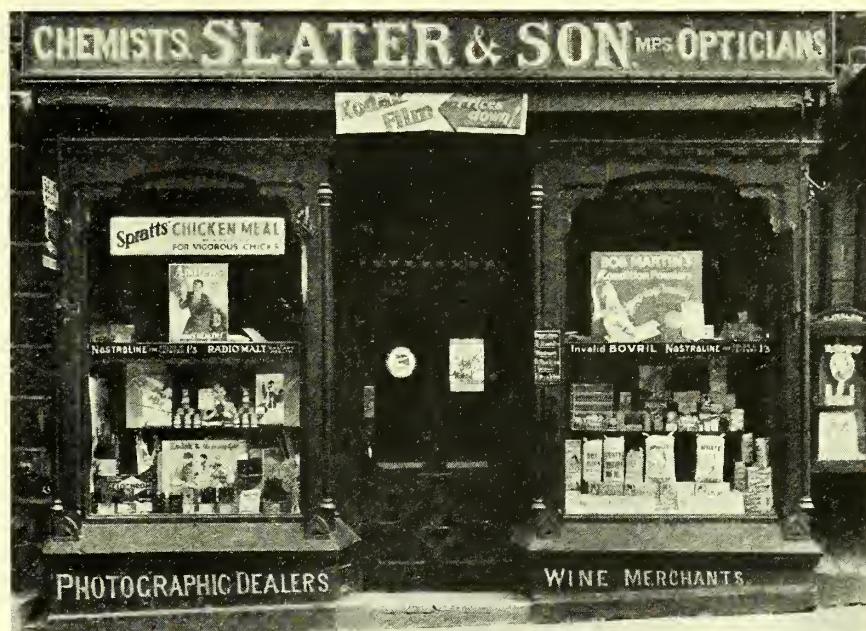
After a few more years' experience about London I made a serious attempt to pass the "Minor," following six months in a popular college. But I was unlucky in getting belladonna suppositories to make, which did not turn out well owing to my nervousness and lack of experience. So I went away for six months, took a half-time job, and attended a private school. I went up again in October 1887 and passed; I am wondering how many of us who got through then are still slogging at it in the retail. Among the prominent men of the time who signed my certificate were Mr. Carteigne (president), Messrs. Fletcher, Greenish, Tanner, Taylor and Gerrard. The deaf porter was a noted character at this period. Years of experience told him, when the student came down from the examination room, whether he had passed; and there was a tip and a salute as we wished him and Bloomsbury Square "Good-bye."

Shortly after I commenced on my own account in my native land. The Diamond Jubilee followed in 1897, and I had the pleasure of seeing Queen Victoria by the Horse Guards. Her complexion looked healthy, and she bowed to us all in her queenly and dignified way. In what years will the next Golden and Diamond Jubilees be celebrated? "Tempora mutantur."

PILLS AND PAMPHLETS SIMULTANEOUSLY.—A machine which manufactured pills and printed pamphlets at the same time was described at Accrington, recently, on the occasion of the fiftieth anniversary of the local typographical society. It was stated that the machine was the invention of a local printer, Mr. Jervis Marshall, well known in the town forty-five years ago. Marshall was also a chemist, and while printing pamphlets advertising pills on a platen machine the pills came out of a funnel into a bowl underneath the machine.

Before and After Reconstruction

MR. R. SLATER, M.P.S., F.S.M.C., Loftus, Yorks, has sent us the photographs reproduced on this page, showing the old shop front and the reconstructed one as it appears by day and by night. The business has been established over sixty years, and the premises being situated in a fairly wide market place the alterations resulted in a remarkable amount of favourable comment. Mr. Slater states that both internal and external reconstructions were carried out by a local building contractor to plans drawn up by himself. The base is of $\frac{3}{4}$ -in. black vitrolite, and the pilasters and facia of $\frac{1}{2}$ -in. green opalite. The windows are framed in staybrite steel, which is also used on the sunblind lath and box, door fittings and ventilators. The sign was supplied by the Franco-British Electrical Co., and is illuminated by inset neon (red in centre name and blue in outside titles). The letters themselves are enamelled black in front and red at sides, standing 3 in. from the facia. The whole



front projects some three feet from the adjacent buildings and is framed in staybrite steel. The leaded lights above the transom are in opaque glass, and the lettering (black and gold on plain plate glass inset) is effective both by day and night. The window enclosures are of oak, with opaque glass at the back, and the lights, three to each window, are concealed above the transom level. The pharmacy has been refitted inside with wall cases, tallboys, glass-fronted counters and showcases in mahogany, made to designs submitted by a Stockton firm of cabinetmakers. The step is in terrazzo with white marble edge. The present windows are high enough at the transom level to permit of pelmets being used if desired. The alterations have resulted in more than three times the effective window space than was the case with the old front. The business was founded by the late Mr. K. McLean and was carried on by the present proprietor's father, who died in 1931, for about thirty-seven years. Mr. R. Slater passed the Qualifying examination in 1914. He then joined the Royal Army Medical Corps and during the next four and a half years saw service in France, Egypt and Palestine. On returning to civil life Mr. Slater studied optics and passed the Fellowship examination of the Spectacle Makers' Company. He takes a keen interest in sport, particularly in the activities in his own area, and is a member of the local municipal authority.

Charities and Income Tax

By T. Hynes, LL.B.

READERS of THE CHEMIST AND DRUGGIST have probably seen with some surprise the report of a recent decision of an Irish Circuit Court in which it was laid down that the Pharmaceutical Society of Ireland is "not a body established for charitable purposes only," and therefore not entitled to exemption from income tax on profits from interest on investments, property, examination fees and school fees. If so, the surprise is likely to be due to the fact that someone could be found to maintain that the Society is such a body, as the words "charity" and "charitable body" commonly suggest the idea of alms. This would, however, be to ignore the special meaning which is given to the words in income-tax law. It is true that no definition of them is to be found in any Act of Parliament relating to income tax; but for a number of years, indeed ever since the reintroduction of the income tax in 1842, our courts, in deciding income-tax cases, adopted the meanings attached to the words in decisions under Acts having nothing to do with income tax, and this practice was in 1891 hardened into a rule of positive law by a decision of the House of Lords.

This settled once for all, or at least until Parliament shall enact to the contrary, that, for the purposes of income-tax assessment, charity is to be held to include four principal divisions, namely: (a) trusts for the relief of poverty; (b) trusts for the advancement of education; (c) trusts for the advancement of religion; and (d) trusts for other purposes beneficial to the community not falling under any of the other heads. The objects here included as charitable will be seen to be applicable to the rich as well as the poor. It is in this sense accordingly that the Income Tax Act, 1918, is to be interpreted when it provides (in Section 35) that exemption shall be granted from the tax under (1) Schedule A on the rents and profits of any lands or houses vested in trustees for charitable purposes so far as such rents and profits are applied to charitable purposes only; (2) Schedule C on any interest annuities, dividends or shares of annuities subject to the same limitation; and (3) Schedule D on any yearly interest or other annual payment forming part of the income of any body of persons or trust established for charitable purposes only, or which, according to the rules or regulations established by Act of Parliament, charter, decree, deed of trust or will, are applicable to charitable purposes only, and so far as they are so applied.

An Important Act

This Act of 1918 was one of those taken over by the Irish Free State; and although some changes have been made in the law by the Parliament of that Dominion, these are not material for the consideration of the general principles of law arising in this case. This remark applies also to the amendments of the income-tax law of the United Kingdom which have been made since 1918. Section 30 of the Finance Act, 1921, as amended by Section 24 of the Finance Act, 1927, extended the exemption to income tax under Schedule B on lands occupied by a charity, and to the tax under Schedule D on the profits of a trade carried on by any charity if the profits are applied solely to the purposes of the charity and either (1) the trade is exercised in the course of the actual carrying out of a primary purpose of the charity; or (2) the work in connection with the trade is mainly carried on by beneficiaries of the charity. The Act of 1927 makes provision at the same time for excluding from the benefit of the exemption the tax under Schedule A or B on any rent or other annual payment made by a charity in respect of any lands or tenements which are in the use or enjoyment of a person whose total annual income amounts to not less than £150.

The two requirements for exemption which came up in the Irish case remain therefore in their general outline unaffected by legislation subsequent to the Income Tax Act, 1918: that is (1) what it is constitutes a charity or charitable trust; and (2) when the income from such charity or trust is to be regarded as being applied solely for the purposes of the charity. Recent decisions of the courts continue to illustrate the difficulty of determining whether particular facts do or do not justify the granting of the exemption. Thus a society whose funds were applied solely to making grants for the relief of

subscribing members or their relations in necessitous circumstances has been allowed to be a charity entitled to exemption. So also was an agricultural society constituted for the promotion of an annual agricultural show, for the improvement of live stock, and the advancement of agriculture generally. On the other hand, a Medical Council established mainly for the purpose of enabling qualified to be distinguished from unqualified medical practitioners, of exercising an oversight over medical studies and examinations and of publishing a British Pharmacopœia was held not to be a charity, the ground of refusal of the exemption in this case being that the Council was mainly established for the benefit of the medical profession, though incidentally of benefit to the community generally. Exemption was also refused to a general nursing council because its objects were to a material extent held to be professional.

Claims for Educational Objects

But it is under the heading of "the advancement of education" that claims for exemption come up most frequently for decision. A society for the promotion of what is known as simplified spelling was held not to be entitled to exemption. On the other hand, exemption has been allowed to a trust established for the promotion of temperance where all the income of the society was applied solely to that object. A more difficult case was that of a public day school trust which had been incorporated as a company with a memorandum and articles framed with the object of establishing schools which would give a good education at the lowest possible cost. The company was converted into a trust for a long term of years, provision being made that the dividend payable on the share capital should not exceed 4 per cent. per annum. It was held to come into the category of public schools and, as such, to be entitled to exemption. But in another case a college was established with the provision that its income and property should be applied solely for the objects of the college, and no profit was to be distributed to any person. Fees were charged to pupils, and after payment of all expenses there was a surplus which was applied to reduce the mortgage debts which had been incurred to secure extension and improvement of the college. It was decided that, although the college was a charity, this surplus was in the nature of a trading profit and assessable to income tax as such. It is, however, doubtful whether the same decision would have been come to since the change in the law made by the Finance Act, 1927, already referred to. And it has been held that the fact that some benefit may accrue to the members of a society, as such, is not sufficient in itself to prevent the Society being regarded as a body established for charitable purposes only.

With such a welter of overlapping authorities, the task of deciding whether the Pharmaceutical Society of Ireland was a charitable trust must have presented serious difficulties to the judge. On the facts as reported it would be possible to reconcile the judgment to the rules approved in cases previously decided. On the other hand, a decision in the contrary sense might find respectable authority on which to rest. Thus, in one case we find a judgment so unrestricted as to make "charity" identical with general public use; and, as has been said, the leading case itself does not exclude the possibility of a charitable trust being of benefit to some who cannot be classified as indigent or necessitous persons. This is also implicit in at least two of the most recent of reported cases. In one of these the Institution of Civil Engineers was held to be established solely for the advancement of science, and consequently to be a charity entitled to exemption. In the second of the cases a technical college set up to promote the efficiency of the woollen industry was decided to possess the characteristics which entitled it to exemption as a charity.

CHINA IMPORTS PERFUME.—A report from the Shanghai Custom House states that perfume imported into China for the first eight months of last year amounted to £87,480. Shanghai alone imported more than two-thirds of this cargo coming into the country. The values given are approximate and show an increase of nearly £6,000 compared with the same period last year.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students," "The Chemist and Druggist," 28 Essex Street, London, W.C.2."

Report on the April Analytical Exercise

THE powder distributed to students on April 2 contained one part by weight of mercurous chloride, one part of bismuth oxychloride, and eight parts of commercial sodium chloride. The composition of such a mixture would approximate to:—

Hg	...	...	...	...	...	8.5
Bi	...	...	...	...	...	8.0
Na	...	...	...	...	...	31.5
Cl	...	...	...	...	...	51.4
O	...	...	...	...	...	0.6
						100.0

Besides these main constituents there were also present, as impurities, distinct traces of the sulphuric acid radical and slight traces of calcium and magnesium.

Samples of the powder were distributed to thirty-four students, and thirteen reports were returned for examination. Chlorine was mentioned as a constituent in every case, but mercury was missed by four students, bismuth by three, and sodium by one.

The exercise was a slightly more difficult example than several of its recent predecessors. The production of a sublimate in the preliminary examination, coupled with the darkening in colour that occurred when the powder was heated with sodium hydroxide in testing for ammonium compounds, suggested the probable presence of a mercurous salt, and this suggestion received fairly conclusive support from the observation (after the presence of mercury had been definitely established in the systematic analysis) that the aqueous extract from the powder was free from mercury. Most of the students who succeeded in detecting the mercury met with it in the form of the mercuric salt into which the mercurous chloride had been converted by the oxidising action of the nitric acid used in preparing the original solution, and the correct report of its presence as a mercurous salt was returned in few cases only.

In several instances the powder was described as incompletely dissolved by hydrochloric acid; but it was actually possible to effect its complete solution by continued heating with a sufficiency of the undiluted acid, since mercurous chloride dissolves to a certain extent in that liquid. From the solution it is reprecipitated on dilution. In the case of the present mixture there was a possible complication due to the hydrochloric acid solution yielding, on dilution, a precipitate that included not only mercurous chloride but also to some extent bismuth oxychloride, and unless the precautions usual in testing for bismuth were observed there was a risk of its escaping detection.

There were several reports of the presence of potassium as a main constituent. These seem to have been based on the flame test only, where the latter was applied in conjunction with the use of insufficiently effective cobalt-blue glass. When this test is used, the efficiency of the glass should be tried beforehand to make sure that it entirely stops the coloration due to intensely heating a bead of sodium chloride or carbonate. If a single strip of the glass is found insufficient for this, as many further strips as may be necessary should be superposed. With such a precaution, the detection of potassium, by applying the flame test at the proper stage in the systematic analysis, is rendered tolerably certain, while the absence of anything more than traces may usually be inferred safely.

PRIZES

The First Prize for the best analysis has been awarded to:—

EDWARD SIMPSON, 42 Ladysmith Road, Edinburgh, 9.

The Second Prize has been awarded to:—

HAROLD E. TAYLOR, 3 Goldenacre Terrace, Edinburgh, 4.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming book or books selected.

MARKS AWARDED FOR ANALYSES

1. Correspondents who have not passed in Chemistry:—

E. Simpson (1st Prize) ...	95	Beta	...	...	...	72
H. E. Taylor (2nd Prize) ...	93	Burslite	...	...	...	70
Venator ...	...	...	92	Poppy	...	68
P. E. L. ...	...	...	92	T. N. T.	...	62
Mitosis ...	...	...	83			

2. Correspondents who have passed in Chemistry:—

William III ...	...	96	Arzneibereiter	...	...	72
Tartar ...	...	75	Aspirant	...	...	53

TO CORRESPONDENTS

EDWARD SIMPSON.—We were not able to confirm the evolution of carbon dioxide on heating the powder with dilute sulphuric acid, as reported by you and several other students.

VENATOR.—Seeing that 80 per cent. of the powder dissolved readily in cold water, it was inexact to describe it as insoluble.

P. E. L.—Darkening of the powder when heated with sodium hydroxide solution, in testing for ammonium compounds, was a suggestive change that you left unreported and may not have observed. Attentive notice of changes produced during preliminary tests is often of value in carrying out the subsequent systematic analysis. The mercuric salt present in the solution, eventually obtained, was produced by the oxidising effect of the nitric acid used upon the mercurous chloride.

MITOSIS.—The reaction you observed on adding ammonium sulphide in the systematic analysis was due to bismuth that had escaped precipitation as sulphide by means of hydrogen sulphide. The flame coloration attributed to potassium was really due to the incomplete stopping of the sodium flame by cobalt glass that was not sufficiently intensely blue.

BETA.—If you had taken the precaution of testing, by means of ammonium sulphide, the sublimate you obtained, you would have had no difficulty in recognising the presence of mercury.

BURSLITE.—You have been misled in the interpretation of the tests you applied with a view to detecting the presence of arsenic in some form of combination.

POPPY.—The formation of a sublimate when the powder was heated in a dry tube should not have escaped observation.

T. N. T.—From the description of the test as you applied it, we are disposed to conclude that the precipitate you attributed to an oxalate simply consisted of ferric hydroxide.

WILLIAM III.—A good report, except as regards the traces; but see the reply to "Venator."

ASPIRANT.—The composition of the powder can easily be imitated, and we suggest that you prepare a similar mixture and examine it in connection with the points upon which you have fallen into error.

THE ANALYTICAL TOURNAMENT

With the analysis now reported upon, the end of the analytical tournament for the current session is reached and the awards can be announced. The number of competitors who participated was thirty-eight—a considerable increase on last year's figure—and the standard of the work done also showed a distinct advance. Specially gratifying features on this occasion are that a much larger proportion than usual of the competitors submitted reports on all six of the monthly exercises and that greater interest in the competition has been taken by students who have already passed in chemistry in the preliminary scientific examination.

The First Place in the competition has been taken by, and the Prize of books to the value of £3 3s., with a Certificate of Honour, has been awarded to "William III" (Mr. Cyril Quennell, 2 Raymond Road, Northampton), who attained the highly creditable aggregate of 539, composed of 97, 90, 78, 82, 96 and 96.

The Second Prize of books to the value of £2 2s., and a Certificate of Honour, have been awarded to "Tartar" (Mr. H. L. F. Walton, 103 Long Dales Road, Lincoln), whose aggregate is 523, composed of 96, 98, 60, 96, 98 and 75.

The Third Prize of books to the value of £1 1s., and a Certificate of Honour, have been awarded to "Mitosis" (Mr. Ralph Pearson, 4 Ulverston Avenue, Withington, Manchester), with an aggregate of 509, composed of 91, 90, 62, 98, 85 and 83.

We offer our congratulations to these prize-winners on the success of their efforts during the session, and our thanks to the other competitors whose work and interest contributed to the success of the tournament. We shall be pleased to hear from the prize-winners as to the books they wish to receive as prizes—their requests to be addressed to the Publisher.

Through N.Z. Eyes

Mr. R. Merrett Wilkinson, a New Zealand chemist, who has recently visited this country, records his impressions of English pharmacy in "The Pharmaceutical Journal of New Zealand." The following are excerpts from the article.

THE British Pharmaceutical Society, now with nearly 25,000 members, has built up a magnificent organisation. Upon this body, or rather its executive, rests the administration of pharmacy. Until last year, membership has been purely voluntary; the new Act, however, makes for compulsory membership, the annual subscription being £1 1s. 6d. (one-third greater than in New Zealand). This has caused tremendous opposition and bitter attacks on the general administration. It is claimed that the Society is becoming highbrow and academic; benefits cannot result, it is said, for the retail pharmacist who has to foot the bill.

Considerable comment has been made, too, of the journalistic efforts of the Society, which, it is said, cost in the vicinity of £12,000. It is compulsory that members take the journal, the cost of which is included in the annual subscription. From my observation it does not seem to be the most useful of the English journals.

The examination standard at home is very much higher than here. The syllabus is far more comprehensive, and a good deal of college work is required. In many parts the training is done in connection with the universities. Examination fees run into fifteen guineas or more. Under the conditions at present, New Zealand is fortunate indeed that there is a reciprocity arrangement. The cost to a New Zealand chemist to register in England is £14 14s., while an English chemist can become registered in New Zealand for, I think, £3 3s.

The National Pharmaceutical Union is the body which looks after the retail and business side of pharmacy. Under Mr. Mallinson's control, this is a most effective body, and receives wide support. It assists, too, with the activities of the National Health Insurance scheme.

Then again there is the P.A.T.A.—not solely a chemists' association, but which seems to be functioning very well. It must be a godsend to English pharmacy.

Display is generally good, but mostly composite with good grouping of similar type goods. Popular sundries and medicines are shown, and more packed and bottled drugs. It is in the interiors that better display prevails, and there seems always something of interest to take one's attention. Forms of open display are greatly in evidence.

Chain Pharmacy

Chain pharmacy is prevalent and increasing. Amalgamation is taking place of even the exclusive type of business.

New goods are featured much more than in New Zealand, and chemists seem to be holding their own. Toilet goods are an important side, and very frequently in charge of lady assistants. Pharmacies are departmentalised much more than here. Libraries are an important adjunct to pharmacies in suitable districts.

Pharmacies seem to have no fixed hours. In the city areas they are generally open in the evening, and I understand a great deal of business is done after other traders are closed. Has this anything to do with the "chemist consciousness" which prevails? Many shops close at eight, but many keep open much later, and some give all-night service.

Before concluding, I would like to say how interested I was to see more careful costing being done—especially in the retailing of packed drugs, and in the dispensing department. This is, I feel, largely due to the efforts of "The Chemist and Druggist" and N.P.U. retail price list and dispensing scale. By these methods, prices are based on the principle that, in addition to a profit on the drugs used, there should be a professional fee for dispensing services. The overhead charges of an average business have been allowed for in these methods. There is urgent need in New Zealand for some investigation into these systems. The flat rate adopted in New Zealand can never be justified. I would take this opportunity of urging any younger chemist, if possible, to go for a trip home.

Shellac

By H. E. Cox, D.Sc., Ph.D. (Lond.), F.I.C.

A BOOK on shellac—its production, manufacture, chemistry, analysis, commerce and uses*—has just been completed by Mr. E. J. Parry, B.Sc., F.I.C. Mr. Parry wrote his first paper on shellac in THE CHEMIST AND DRUGGIST in 1901; and, as many of us well know, he has been intimately associated with it ever since, so when he puts pen to paper to tell us all about it we are sure of a valuable contribution based upon an almost unique experience. The volume is graced by a foreword from Sir Henry Lindsay; in it he remarks, "It shows a wonderful grasp of the many complex problems underlying the shellac industry and trade." We should expect this from Mr. Parry, and we are not disappointed. Some might have written more in detail on the botanical aspects, some more on the entomological, some could perhaps have discussed the chemical constitution more fully; none could speak more authoritatively of the analysis of shellac, and few could speak as well of the commercial and contractual aspects of the industry. Parry deals with skill and discrimination with all these aspects and several others.

Let us review very briefly the contents. Chapter I treats of the origin of shellac—the name derives from "lakh," which means 100,000, and was applied to the secretion of the insect here correctly named as *Laccifer lacca*, on account of the myriads of them swarming on the trees. Following interesting excerpts from older writings there is an exact and accurate account of the activities of these insects which have so valuable economic importance. Practically all shellac comes from parts of India, and naturally enough the old-time haphazard collection of the resin has been displaced by scientific cultivation based upon careful study of the life cycle of the insects and the needs of the various trees which form their hosts. These facts and methods are described in Chapter II and in Chapter III are considered the various conditions, parasites, direct and indirect enemies which beset the shellac insect. Truly was it written "Little fleas have lesser fleas upon their backs to bite 'em." Shellac as scraped from the branches of its host trees is one; it appears on the market as stick-lac, T.N., seed lac, garnet lac, button lac, and in other varieties. Each of these has a definite commercial meaning and is the subject of special manufacturing operations, some of a primitive kind, which are well described in the fourth chapter.

Chapters V and VI treat of the analysis and the chemistry of shellac respectively, and in these we have Mr. Parry in his most authoritative mood. He explains his methods and views clearly and gives a fair and faithful account of the views of others; if his criticisms of the views of others are at times forceful, they are certainly based upon real knowledge and study of the subject. A review is perhaps not the place in which to discuss the author's opinions. (There is an error at p. 147 which will no doubt be rectified in the next edition—the tables of results are incorrectly added, so that the comment on them is unnecessary.)

Few writers on the chemistry of a subject can also deal with its commerce. Mr. Parry does this and does it well in Chapter VII, and affords information such as specifications and forms of contract hitherto not available outside the trade circles; it is of great interest.

It is believed that no other book deals with shellac in all its aspects. So everyone who buys, sells, uses or is interested in the chemistry of shellac will, as a matter of course, acquire this volume and will be grateful to Mr. Parry for it.

* "Shellac," by E. J. Parry, B.Sc., F.I.C. Pp. 240. Pitman & Sons, Ltd., Parker Street, London, W.C.2. 12s. 6d.

"SUCCESSFUL SNAPSHOTS: HOW TO MAKE THEM" is the title of a useful 1s. book published by The Fountain Press, 19 Curistor Street, London, E.C.4. The author, Mr. W. F. Shearcroft, B.Sc., has written it "for those people who buy a camera in the hopes of recording happy memories of their families. . . ." It contains a great deal of useful information written in language a beginner would understand, and therefore can be recommended by chemists to most of their photographic customers.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values.

28 Essex Street, W.C.2, April 25

BUSINESS has resumed on a fairly good scale, although most of the orders are for comparatively small quantities required for immediate use. A feature of note during the past week or two has been the steady demand, chiefly for natural products, from the Continent and from Germany in particular. There has in this direction been quite a revival of business. The quota difficulty, however, is minimising the trade with Italy. Cabled advice has been received from a reliable source that the earthquake in Formosa has not affected the area concerned with CAMPHOR and HO OIL.

Crude Drugs

A very fair amount of business has been done since the holidays and the general tone is steady. AGAR has been selling on spot and there has been a continued demand for parcels near afloat, for the Continent. The spot values of CHAMOMILES tend to ease off a little. ERGOT has again sold in moderate quantities. West African GINGER is quoted dearer. The demand for MENTHOL has been better on spot and the forward positions tend to be steadier. The Continental MERCURY Group report good business at an advance. SENNA has been dull since the holidays, with spot values steady. CARNAUBA WAX is firm. The Lofoten cod-fishing concluded last week and the resultant oil yield is substantially below average. The shipment market is firm but quiet.

Essential Oils

Most of the commodities in this market have been rather quiet since the resumption of business. ANISE (STAR) is very firm on spot, particularly tins, and shipment is advancing on the further rise in silver. BERGAMOT has remained slack. CITRONELLAS are still at low values, with little doing. Sicilian hand-pressed LEMON is easier for shipment, the price having broken rather sharply and somewhat unexpectedly. A recovery is looked for as the summer develops. LEMONGRASS is still dull and is quoted cheaper. MANDARIN is firmer or finest quality oil. Japanese PEPPERMINT has been in better demand and the market is steadier.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:

Centre	Quoted	Par	April 25	Value of the £
Amsterdam	Fl. to £	12.107	7.16	11/10
Berlin	Mks. to £	20.43	12.02	11/9½
Brussels	Belgas to £	nominal	28.57	16/2½
Copenhagen	Kr. to £	18.259	22.40	24/8
Lisbon	Esc. to £	110	109½	19/11½
Madrid	Ptas. to £	25.22½	35.½	27/10½
Milan	Lire to £	92.46	58½	12/8½
Montreal	Dol. to £	4.86½	4.86½	20/0
New York	Dol. to £	nominal	4.83½	19/10½
Oslo	Kr. to £	18.159	19.90½	21/11
Paris	Fr. to £	124.21	73½	11/10
Prague	Kr. to £	164.25	115½	11/10
Stockholm	Kr. to £	18.159	19.39½	21/4
Varsaw	Zloty to £	43.38	25½	11/10
Urich	Fr. to £	25.2115	14.97	11/10

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THE general tone continues quite steady on spot, except in the cases of the limited range of Continental products. Business has been on the quiet side since the holiday break.

AMMONIUM ICHTHOSULPHONATE.—Market continues steady: one wt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. cans; and 2s. 0½d. per lb., in 4-oz. tins.

BARBITONE.—Business slow, with cheap spot offers: Continental unded prices are: two cwt., 15s. 3d.; 56 lb., 15s. 8d.; small parcels, up to 16s. per lb.

BISMUTH SALTS.—Makers' scales of prices for these salts are unchanged. Carbonate, one cwt., 6s. 6d.; less than 8 lb., 8s. 6d. per lb.

BROMIDES.—Inquiry on fair scale; market steady: not less than 16cwt., 1s. 9d.; one cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 5d. per lb.; potassium B.P. crystals and granular, not less than 16cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities,

ties, 2s. 2d. per lb.; sodium B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb.; without engagement. Special prices for larger quantities.

CAFFEINE.—Continental material to come forward is quoted as follows: Pure, two cwt., 7s. 1d.; one cwt., 7s. 3d.; 56 lb., 7s. 5d.; less than 56 lb., 7s. 7d. per lb. Citrate, two cwt., 5s. 1d.; one cwt., 5s. 2d.; 56 lb., 5s. 3d.; less than 56 lb., 5s. 4d. per lb., 5-lb. tins free, carriage paid. Other salts quoted proportionately. British is unchanged: 56 lb., 7s. 9d.; less, 8s. per lb. Citrate, 56 lb., 5s. less, 5s. 3d. per lb.

CITRIC ACID (B.P. CRYSTALS).—British makers quoting at 11½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—Makers' prices for home trade continue at the recent advances. Export prices vary as to destination.

CREAM OF TARTAR.—British makers quoting 99 to 100 per cent. material at 79s. per cwt., less 2½ per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

HEXAMINE.—Makers' prices are keeping steady. B.P. powder, from 1s. 3d. to 1s. 4d.; free-running crystals, from 1s. 7d. to 1s. 8d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 8d.; one cwt., 1s. 9d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

HYDROQUINONE.—More inquiry; quotations competitive; one cwt., 4s. 6½d.; 56 lb., 4s. 8d.; 28 lb., 4s. 10d.; 14 lb., 5s. 1d. per lb., carriage paid.

IODIDES.—Makers' scales of prices for these salts are steady. Potassium Iodide, B.P., one cwt., 5s.; 4 lb., 6s. 2d.; smaller quantities, up to 6s. 2d. per lb.

MERCURIALS.—Prices for these salts are very steady. Chloride, B.P., one cwt., 4s. 9d.; less than one cwt., 4s. 10d. per lb. Metal values fully steady.

PHENACETIN.—A modest business, with quotations competitive: bulk quantities, 2s. 7d. to 2s. 9d.; smaller parcels, 2s. 10d. to 3s. per lb.

PHENAZONE.—The scale for home trade is as follows: crystals, five cwt., 8s. 9d.; two cwt., 9s. 0d.; less, 9s. 2d. per lb.; powder, 2½d. per lb. extra. Export prices to the Empire, quoted f.o.b. Continent, are unchanged: five cwt., 8s. 9d.; two cwt., 8s. 11d.; less than two cwt., 9s. 1d. per lb. To other destinations, quoted in marks: 250 kilos., 11.25 marks; 100 kilos., 11.50 marks; less, 11.75 marks per kilo, f.o.b. Continent.

PHENYL ETHYL BARBITURIC.—Occasional small spot business, with values about steady at 28s. to 29s. per lb., in 2-lb. bottles.

POTASSIUM PERMANGANATE (B.P.).—Market fully steady, with a fair business in small parcels: spot, five cwt., 10d.; one cwt., 10d.; in drums; smaller packages, 10d. to 1s. per lb.

QUININE SALTS.—Prices for these salts continue unchanged: Sulphate, 2s. 2d.; bisulphite, 2s. 2d.; ethyl carbonate, 2s. 10d.; salicylate, 2s. 10d.; phosphate, 3s. 4d.; hydrochloride, 2s. 8d.; bihydrochloride, 3s.; hydrobromide, 2s. 8d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s. 0d.; alkaloid, 3s. 0d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages, 10d. per oz.

SALICYLIC ACID (B.P.).—Quotations unchanged; market quiet: five cwt., 1s. 7d.; one cwt., 1s. 7d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SANTONIN.—Business remains slow, with kilo. parcels quoted at about 51s. 6d. and less for bulk quantities.

SODIUM BENZOATE (B.P.).—Fair business, market competitive: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10d. per lb.

SODIUM DIETHYLBARBITURATE.—Inquiry is slow: spot, one cwt., 15s. 9d.; 28 lb., 16s.; 14 lb., 16s. 3d.; 7 lb., 16s. 6d.; smaller parcels, up to 17s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—A steady inquiry being received: home trade, crystals or powder, five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—More inquiry. British makers quoting 1s. 0d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

THEOBROMINE.—Continental material is quoted as follows: pure, two cwt., 7s. 0d.; one cwt., 7s. 2d.; 56 lb., 7s. 4d.; less than 56 lb.,

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7s. 6*1*d. per lb. Soda salicylate, two cwt., 6s. 1*1*d.; one cwt., 6s. 2*1*d.; 56 lb., 6s. 3*1*d.; less than 56 lb., 6s. 4*1*d. per lb., 5-lb. tins free, carriage paid. Other salts quoted proportionately.

THYMOL.—A fair inquiry; market steady: synthetic, fine white, two cwt., 5s. 7d.; one cwt., 5s. 9d.; 56 lb., 5s. 11*1*d.; 28 lb., 6s. 3*1*d.; 1*4* lb., 7s. per lb., ex ajowan seed, one cwt., 8s. 3d.; 56 lb., 8s. 6d.; 28 lb., 9s.; 1*4* lb., 10s. per lb.

VANILLIN.—This market is well held at Convention prices; business up to average. Ex clove oil or guaiacol, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

Crude Drugs, etc.

AGAR.—Steady sales are reported in parcels near afloat, required for the Continent. The market is fully steady on spot and slightly dearer forward. Kobe No. 1, 2s. 1*1*d.; No. 2, 2s.; Yokohama No. 1, 1s. 1*1*d. per lb. New crop, shipment, Kobe No. 1, 1s. 8*1*d.; No. 2, 1s. 7*1*d.; Yokohama No. 1, 1s. 7*1*d. per lb., c.i.f.

ARNICA FLOWERS.—Occasional small business on spot, with the values in the region of 10d. per lb.

BUCHU.—There has been but small interest in this article since the holiday. Spot, best greens, if available, up to 1s. 3d.; ordinary to fair, 1s. to 1s. 2d.; ovals, 9d. to 10d. per lb., as to quality. Shipment, rounds, 1*1*d. per lb., c.i.f.

CAMPHOR.—Cabled advice from a reliable source states the earthquake in Formosa will not affect this market in any way. Shipment offers: tablets, 2s. 1d.; flowers, 1s. 11*1*d.; slabs, 1s. 9*1*d. per lb., c.i.f. Spot values are unchanged. English refined is still unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; $\frac{1}{2}$ oz. and $\frac{1}{3}$ oz. and $\frac{1}{4}$ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CHAMOMILES.—Values of spot stocks are quoted rather lower this week in the region of 180s. to 195s. per cwt., as to quality. Business has been quiet.

CLOVES.—Market steady but quiet. Zanzibar, spot, 6d.; shipment, April-May, 6*1*d., c.i.f. Madagascar, 4*1*d., in bond; shipment, April-May, 5d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended April 20 were 79 and the deliveries *nil*, leaving a stock of 2,761. From January 1 to date the landings of Zanzibar have been 1,099 and the deliveries 1,432. Landings of Madagascar for the week ended April 20 were *nil*, and the deliveries 6, leaving a stock of 1,972. From January 1 to date landings of Madagascar have been 2,198 and the deliveries 473 packages.

COCONUT (DESICCATED).—Business has been quiet. Spot, fine, 22s. 6d.; medium, 20s.; shipment, halves, April-May, 19s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—The shipment market for finest Lofoten steam-refined non-freezing medicinal oil is firm as quoted at 92s. per barrel, c.i.f. London. Spot, in small lots, 136s. per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures. Lofoten fishing has now concluded. The oil crop totals 51,052 hectol., compared with 73,275 hectol. at the same date last year and 66,261 hectol. in 1933.

COLCHICUM ROOT.—Dealers are quoting spot root at about 45s. per cwt. for small parcels.

DERRIS ROOT.—Spot offers are being made at 1s. 1d. to 1s. 3d. per lb., as to ether extract; shipment is quoted from 1*1*d. to 1s. 2d. per lb., c.i.f., as to test.

ERGOT.—Steady sales, with values maintained. Russian, 1s. 2d. to 1s. 3d. Spanish, 1s. 4d. to 1s. 5d. per lb., as to quantity.

GELATIN.—Fair inquiry; market steady. German, gold leaf, 2s. 3*1*d.; silver leaf, 2s. 0*1*d.; bronze leaf, 1s. 9*1*d.; fine leaf, 1s. 5*1*d. to 1s. 7*1*d. per lb. French, gold leaf, 1s. 9*1*d.; silver leaf, 1s. 7*1*d.; bronze leaf, 1s. 5*1*d. per lb., in cases, duty paid.

GINGER.—Quotations have advanced. West African, spot, 32s. 6d.; for arrival, 31s.; shipment, May-June, 32s. per cwt., c.i.f.

GUM ACACIA.—Although rather quiet values are keeping steady: spot, Kordofan cleaned sorts, 48s.; bleached, 87s. 6d. to 90s. per cwt.; shipment, Kordofan cleaned sorts, 46s., c.i.f.

HYDRASTIS.—A moderate inquiry, with dealers asking up to 6s. 3d. for spot and shipment at 6s. per lb., c.i.f.

IPECACUANHA.—Spot values are steady; market quiet. Matto Grosso, 4s. 10*1*d. Cartagena, 4s. 9d. and Minas, 4s. 4*1*d. per lb.

LIQUORICE ROOT.—Spot holders are quoting natural root at £12 per ton and limited supplies of decorticated at £46 per ton.

LYCOPODIUM.—Spot supplies of treble sifted tend slightly dearer at 2s. 9d. to 2s. 1*1*d. per lb.

MANNA.—Finest selected flake in 1-lb. tins is available on spot at about 5s. per lb.

MENTHOL.—A very fair business is reported on spot and the tone is now steady. K/S brands, 11s. 4*1*d. to 11s. 6d.; in bond, 10s. 6d.;

afloat, 10s. 6d.; shipment, May-June, 10s. 6d.; October-December, 10s. 3d. per lb., c.i.f. sellers. Japanese shippers quoting at 10s. 7*1*d. per lb., c.i.f.

MERCURY.—Business has been sustained on a good scale, and the shipment price for Spanish-Italian is dearer at 55 dollars per bottle, f.o.b. Continent. Spot, in small lots, from £11 11s. per bottle, ex store.

OPIUM.—There are spot sellers at 1s. 5d. to 1s. 5*1*d. per unit, ex store. Moderate business recorded.

PIMENTO.—Values steadier, business quiet. Spot, 2*1*d. per lb.; shipment, April-May, 19s. per cwt., c.i.f.

QUASSIA CHIPS.—Dealers are selling a few lots, with the price in the region of 20s. per cwt.

RUBBER.—Steady at the reopening and fractionally dearer. Spot, 5*1*d.; April and May, 5*1*d.; June, 5*1*d.; July-September, 5*1*d.; October-December, 6*1*d. per lb.

SEEDS.—**ANISE.**—Spot, duty paid, Spanish, 66s. 6d.; Bulgarian, 33s. **CARAWAY.**—Dutch, 35s.; spot, duty paid, 28s. 6d., f.o.b. Holland. **CORIANDER.**—Market dearer. Morocco quoted at 13s.; spot, duty paid, sold at 12s., in bond. **CUMIN.**—Morocco offered at 55s.; spot, duty paid, 50s., in bond. **FENUGREEK.**—Morocco, 15s., spot; Tunisian, 16s., spot, duty paid. **MUSTARD.**—English, 23s. 6d. to 33s. per cwt., according to quality.

SENEGA.—Not much inquiry this week, market steady. Spot, 1s. 2*1*d.; shipment, 1s. 2d. per lb., c.i.f.

SENNA.—There is nothing to report here. Market is steady at the range of values recorded last week.

TONQUIN BEANS.—The demand has been slow, but the limited stocks in hand are well held for 2s. 9d. per lb. for fair frosted beans.

TRAGACANTH.—A steady inquiry continues, chiefly for the medium grades, which are quoted from £19 to £22 per cwt. Manufacturing qualities, 80s. to 90s. per cwt.

WAX.—**BEES'.**—Business moderate, market steady. Abyssinian, spot, 105s.; shipment, 95s., c.i.f. Benguella, spot, 105s.; in bond, 95s.; shipment, 95s., c.i.f. Conakry, spot, 105s.; shipment, 96s., c.i.f. Dar-es-Salaam, spot, 105s.; shipment, 100s., c.i.f. **CARNAUBA.**—Fair inquiry with values well maintained. Fatty grey, 142s. 6d. to 145s.; shipment, April-May, 140s.; May-June, 142s. 6d., c.i.f. Chalky grey, very short supply and quoted firmly at 145s.; shipment, April-May, 137s. 6d., c.i.f. Primeira, 220s.; shipment, April-May, 190s.; May-June, 190s., c.i.f. Mediana, 210s.; shipment, April-May, 180s. per cwt., c.i.f.

Essential Oils, etc.

A very fair amount of smallish business has been done since the holidays. Sicilian hand-pressed lemon is quoted cheaper, but may well recover as the season develops. Anise is dearer on spot and forward. First quality Mandarin is dearer. Japanese peppermint has been in fair demand and tends to be steadier.

ANISE (STAR).—The spot market continues firm and again rather dearer. Since the holidays there have been no shipment offers cabled, but it is anticipated prices will have advanced with the rise in silver. Thursday: spot holders are not anxious to sell, preferring to await developments at the source. Spot, "Red Ship," in leads, 2s. 2*1*d.; in tins, 2s. 1*1*d.; in drums, 2s. 0*1*d.

BERGAMOT.—Inquiry in the shipment market is still very restricted. Quotations from the source range from about 5s. 1*1*d. to 5s. 6d. per lb., c.i.f., as to brand and quantity. A few small spot sales are recorded at about 5s. 3d. to 5s. 6d. per lb.

BOIS DE ROSE.—Business of no particular importance. Brazilian, spot, 5s. 7d. to 5s. 8d.; shipment, 5s. 6d. per lb., c.i.f.

CAJUPUT.—Occasional inquiry, with B.P. oil at 2s. 1d. to 2s. 4d.; green, 1s. 9d. to 1s. 1*1*d. per lb., as to quantity.

CANANGA.—Not offering on spot, but goods to arrive available at about 11s. per lb., c.i.f.

CASSIA.—There are spot sellers at not less than 5s. per lb.; shipment is firm at 4s. 3d. per lb., c.i.f.

CITRONELLA.—There has been but little interest in this oil for shipment and values remain at a low level. Ceylon is about 1s., c.i.f.; drums, on spot, about 1s. 3d., and smaller packing up to 1s. 4*1*d. per lb. Java is slack, with shipment from 1s. 2d., c.i.f., for bulk quantities; spot, in drums, 1s. 4*1*d., and smaller packing up to 1s. 6*1*d. per lb.

EUCALYPTUS.—Market has been dull. Australian, 70 to 75 per cent., 1*1*d. to 1s.; 80 to 85 per cent., 1s. 0*1*d. to 1s. 1d. per lb., landed, in fair quantities. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GINGERGRASS.—Business has been negligible. Spot, 5s.; shipment, 4s. 6d. per lb., c.i.f.

HO.—Inquiry on the spot indicates there are quite good supplies on spot and a fair amount of oil is reported to be afloat for this market. There is reliable information from the source that the

earthquake in Formosa will not interrupt the normal flow of shipments or cause a shortage. There are spot sellers of bulk quantities at the former rates of 1s. 8d. to 2s. per lb., as to quality. The shipment market has been firm for the past two or three weeks.

LEMON.—Towards the end of February the shipment market for Sicilian hand-pressed new crop oil began to recover sharply from the very low values that had been operating for some months. From that time up to the middle of March there was a very substantial business done, and prices ruled firm and at good figures. At the same time, reports were received from the source that the crop would be much below average. For a time offers were inclined to be restricted and at firm figures, but the demand slackened towards the end of March. Since that time the market has gradually lost strength, and offers are now more free and on a rather lower level. This weakening in the market is somewhat unexpected, and usually well-informed quarters are of opinion the easier tone is likely to be temporary and that a recovery should be recorded as the seasonal demand comes along. The following table shows the movements in the shipment market from January to date:—

Date	Per lb. c.i.f.	Market Report
January 12	Under 3s. ...	Dull. No interest.
" 26	3s. 1d. to 3s. 3d. ...	Steadier, some inquiry.
February 9	3s. 5d. to 3s. 7d. ...	Firmer, good inquiry.
" 28	4s. od. to 4s. 3d. ...	Advancing, active business.
March 9	4s. 3d. to 4s. 8d. ...	" " "
" 16	5s. od. to 5s. 4d. ...	" " "
" 23	5s. 2d. to 5s. 9d. ...	Firm, but quieter.
" 30	5s. od. to 5s. 6d. ...	Steady, demand slackened.
April 13	4s. 10d. to 5s. 3d. ...	Easier and dull.
" 26	4s. 6d. to 4s. 9d. ...	" "

Shipment offers are now made quite freely, with the figure mentioned in the region of 4s. 6d. per lb., c.i.f., and some brands are less. Holders of stocks here have received instructions from the source to sell up to a specified quantity at about these figures. Californian, spot, in large drums, 2s. 5d.; in small drums, 2s. 5d. per lb.

LEMONGRASS.—The market is dull and rather easier. Spot, about 3s. 4d.; shipment, about 3s. to 3s. 1d. per lb., c.i.f., as to position.

LIME.—West Indian distilled is selling in small lots on spot at about 2s. per lb. The shipment quotation is held at 22s. 6d., c.i.f., or good quantities.

MANDARIN.—A reliable report from the source indicates that, while here may be a fair quantity of oil not of the best quality available, here is a definite shortage of the finest oil, quotations for which are now up to 15s. 6d. per lb., landed, and offered sparingly.

ORANGE.—There is little of interest to report here. Sicilian sweet orange shipment is nominal at about 11s. 6d. per lb., c.i.f. French Guinean oil is still freely offered in the region of 2s. 7d. per lb., c.i.f., in bulk quantities, but is attracting very little attention at the moment. Californian oil is unchanged on spot: one case, 2s. 6d.; two or more cases, 2s. 4d.; drums, 2s. 3d. per lb.

PEPPERMINT.—There has been a fair business in forward positions and the market is supported by quotations from the source. Spot, 3s. 9d. to 3s. 10d.; shipment, May-June, 3s. 7d.; October-December, 3s. 4d. per lb., c.i.f. sellers. Japanese shippers are quoting at 3s. 10d., c.i.f., for May-June shipment.

PETITGRAIN.—A small spot inquiry, with holders quoting about 3s. 2s.; shipment, 3s. 8d. per lb., c.i.f.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-piece lots, on spot. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 6 lb., 6s. 10d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 6d. per lb.

SPEARMINT.—Some cheap sellers continue to be noted. Spot, first-ands, 8s. 9d.; shipment, 8s. 10d. per lb., c.i.f.

WORMSEED.—Business has been negligible: spot, 9s. 3d.; shipment, 8s. 3d. per lb., c.i.f.

The following are current prices for synthetics, etc.:—ACETONE, 6s. to 6s. 4d. per lb.; AMYL ACETATE, pure, 122s. 6d. per cwt.; CHLORAL, 107s. 6d.; AMYL SALICYLATE, 2s. 2d. per lb. for cwt. lots up to 2s. 6d.; AUBEPINE, ex para cresole, 8s. 3d. to 8s. 9d. per lb.; BENZALDEHYDE, f.f.c., 2s. 2d. to 2s. 4d. per lb.; BENZYL ACETATE, 1s. 4d. to 1s. 8d. per lb.; BENZYL ALCOHOL, cwt. lots, 1s. 11d. up to 2s. 3d. per lb. for small lots; BROMSTYROL, 100 per cent., 9s. 6d. to 11s. per lb.; CYANIC ACID, 3s. 3d. to 3s. 6d. per lb.; CITRAL, chemically pure, 8s. 8s. 6d. per lb.; COUMARIN, 7s. 3d. to 8s. per lb.; ETHYL PHTHALATE steady at 1s. 4d. to 1s. 9d. per lb.; EUGENOL, 7s. 6d. to 8s. per lb.; FARNOL, ex palmarosa, 15s. to 17s. per lb.; HELIOTROPE, 100 per cent. crystals, 7s. per lb., as to quantity; ISO EUGENOL, 9s. 6d. to 10s. per lb.; METHYL ANTHRANILATE, 6s. 6d. to 6s. 9d. per lb. MIRBANE quoted at 7d. to 8d. per lb.; MUSK, KETONE, 19s.; AMBRETTE, 18s.; LILY, 4s. 6d. per lb.; PHENYL ETHYL ALCOHOL, 8s. to 8s. 6d. per lb.; PINEOL, 1s. 4d. for ton lots up to 1s. 9d. per lb. for small parcels.

Commercial Notes

SOVIET QUININE SUBSTITUTE.—It is reported from Moscow that the construction of a plant for the production of akrikhin, described as a substitute for quinine in the treatment of malaria, is to be commenced this year in the Noginsk district, about 40 kilometres from the Soviet capital.

FRENCH VANILLIN EXPORTS.—Shipments for the period January-November, 1934, totalled 829 metric quintals, valued at 6,643,000 francs, against 766 quintals (6,087,000 francs) in the same period of 1933. The chief destinations were French colonies, who took 210 quintals in 1934 and 230 quintals in 1933.

I.F.S. IMPORTS.—Medicines and medicinal preparations imported into the Irish Free State during February totalled £16,332, compared with £14,897 for the corresponding month of last year, making, for the first two months of the year, £36,832, against £33,112. Imports of perfume and cosmetics dropped for the month to £2,770 from £4,259. Disinfectants were imported to the value of £4,672; acids, £1,929; calcium carbide, £871; chemical food preservatives and flour improvers, £4,979; potassium compounds, £734; sodium compounds, £7,802; and chemical manufactures and products, n.e.s., £10,797.

INDIAN CHEMICAL IMPORTS.—During the period April-December, 1934, the value of imports of industrial chemicals totalled Rs. 2072 lakhs, compared with Rs. 195 lakhs during the same period of 1933. Landings of drugs and medicines for the nine months' period of 1934 were valued at Rs. 140 lakhs, against Rs. 139 lakhs for the same period of 1933. The imports of soap of all descriptions for April-December, 1934, was 186,304 cwt., valued at Rs. 54 lakhs, compared with 222,986 cwt. (Rs. 57 lakhs) during the same nine months of 1933. Shipments from the United Kingdom for the 1934 period were 160,325 cwt. (Rs. 46 lakhs) and 170,835 cwt. (Rs. 46½ lakhs) in 1933.

FRENCH TARTARIC ACID EXPORTS.—Shipments of tartaric acid and tartrates during the 11 months ended November, 1934, totalled 83,792 metric quintals (21,203,000 francs), compared with 75,469 quintals (19,934,000 francs) in the corresponding 1933 period; exports to French colonies totalled 3,952 quintals (3,300,000 francs) and 3,152 (2,482,000) respectively. Exports to foreign countries during January-November periods were as follows:—

Destination	1933 (11 Months)	1934 (11 Months)		
			Quintals	Quintals
Germany	7,093	528		
Great Britain	20,755	34,064		
Netherlands	928	212		
Belgium	315	64		
Japan	1,985	10,451		
Canada	686	69		
United States	11,987	9,967		
Australia	29,608	27,348		
Other countries	2,112	1,089		

Sudan Gum Acacia

BOXALL & CO. report shipments for February, 1935, totalled 1,841 tons, compared with 2,536 tons in February, 1934. Shipments during January-February, 1935, totalled 3,407 tons, against 4,623 tons during the same period of 1934. The chief destinations were as follows:—

Destination	1934			1935		
	Jan.	Feb.	Total	Jan.	Feb.	Total
Great Britain	416	759	1,175	224	219	443
U.S.A.	186	145	331	244	370	614
France	249	370	619	161	169	330
Germany	152	269	421	233	110	343
Italy	129	174	303	182	172	354
Belgium	426	191	617	104	187	291
Japan	192	260	452	162	272	434
Holland	60	65	125	20	73	93
Spain	39	23	62	33	41	74
Sweden	19	12	31	35	11	46
Australia	23	65	88	59	86	145
China	37	13	50	26	18	44
British India	53	29	82	10	—	10
Denmark	21	26	47	5	9	14
Egypt	6	28	34	18	17	35
Argentina	35	25	60	5	20	25

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
February, 1934	2,436	7	93	2,536
February, 1935	1,758	10	73	1,841
January-February, 1934	4,329	11	283	4,623
January-February, 1935	3,214	16	177	3,407

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Council Election

SIR,—Mr. Percy Barrs writes in your last issue (p. 483): "Every member of the Pharmaceutical Council should be a retail chemist in his own business"; and he adds: "I stand for 'Pharmacy for the Pharmacists.'" Have these the same meaning? Assuming Mr. Barrs is expressing himself correctly, I would ask why he should dissociate 13,000 out of 23,000 from any representation. The modern phase of dictatorship in the world's political life takes no heed of the individual; but I cannot imagine Mr. Barrs rising to such superb heights of authority. He also agrees with territorial representation; but what claim has an area to any representation? If individuals mean anything, and in pharmacy I believe they do, the only sound reason for any change would be proportional representation. But perhaps Mr. Barrs has not thought it out. It surely should occur to aspirants for the Pharmaceutical Council that what you do, or where you live, is your own affair, but your capacity to serve your craft efficiently is the interest of every fellow member. If a voter does not know all the candidates, what does it matter? Each voter should be able to decide roughly from the candidate's expression of his own personality whether he is a reasonable, a possible representative or not. As one who represents on the Council of the Society one of the minority interests in our profession, I feel I cannot allow Mr. Barrs's expression of his opinions to go without a protest against any such limitations.

Yours, etc.,
HERBERT SKINNER.

Royal Northern Hospital, N.7.

SIR,—May I compliment your excellent journal on its *questionnaire* (p. 483) to Council candidates, and at the same time suggest that answers to Question 4, from members of our profession not seeking the glory of election, would perhaps be helpful in formulating the policy of our future Council. For my part the answers would be as follows:—

Educational Policy.—A complete revision of the present syllabus, less attention being paid to the abstract part of the curriculum (i.e., botany, *materia medica* as at present and physics), and the inclusion of physiology, therapeutics and a sound business course.

New Building Scheme.—Separation of College of Pharmacy from pharmaceutical headquarters; the latter should be suitably housed along with the Pharmacological Laboratories in more spacious surroundings on the outskirts of London.

Control of Expenditure.—Complete overhaul of present extravagant system.

Retention Fee, Shop-Registration Fee, Council's Trading Policy.—See Mr. Lloyd's answer (p. 483).

Present Trend of Pharmacy.—Like Mt. Everest: high standards of B.P., 1932, and trend of medicine up through the clouds; rank and file of pharmacy floundering at the foot. Only by mailed fist methods can they be carried to the top. Only a Council on the lines of the G.M.C. can achieve this object. I for one will vote for anyone with strong ideals on these lines.—Yours, etc.,

CRUSADER (25/4).

"Disturbing Factors"

SIR,—Your leaderette on "Disturbing Factors" seems to call for some comment from me. You credit me with having stated that officialdom and bureaucracy were intimately associated with pharmaceutical affairs. I made no such statement, nor do I think your readers who have read the report of my address would place such a construction upon my remarks. Mr. Hines's opinions, inherited or otherwise, are well known, but I neither suggested that he was right nor associated myself with his views. Your statement that "if the present is carefully guarded the future can look after itself" would, if adopted, be such an exceedingly short-sighted policy when applied to the erection of an important building that I cannot believe any Council, however constituted, would be foolish enough to act upon it. The words which you print in italics, and describe as "ingenuous," would have been more fairly

dealt with had you not lifted them from their context, which stated why many of our amendments were rejected by the Government. In defending what, in your leaderette of March 16, you described as the "commercial undertakings" of the Society I naturally used your own words, though I agree they are not a proper description of this section of the Society's activities.—Faithfully yours,

E. H. SIMMONS.

Salford.

The Pharmacy League

SIR,—Following our previous successful meeting, I desire to bring the attention of all pharmacists to the next, which will be in the Lecture Hall at 17 Bloomsbury Square on Tuesday, April 30, at 9 p.m. The speaker on this occasion will be A. E. Atkins, chairman of the National Pharmaceutical Union Executive, who will address the meeting on "How I Would Improve Pharmacy." After the address a discussion will be opened, which we hope will be made interesting and instructive by the questions of those present. A cordial invitation to the more recently qualified to join in the discussion is extended, as this is an opportunity for them to accustom themselves to public debate.—Yours faithfully,

J. I. HOPE EVANS, Chairman.

London.

"S.S.S."

SIR,—It will be interesting to watch the career of the Retail Trading Standards Association. As pointed out in your editorial article (C. & D., April 20, p. 489), its reception has not been so cordial as the founders had no doubt desired. Whatever judgment other branches of retail trade may pass upon the Association, I can well imagine that chemists will not hasten to offer their support. The very suggestion of any further "standards" is alarming, when it is remembered that already we must conform to numerous legal standards. In any case, the chemist does not need to display any additional device to assure the public that his goods and service are of a quality designed to give satisfaction. In my own case, it is no novel experience for a customer to tell me that the ginger, arrowroot, essences and even soaps which I stock are "better than those sold at the ordinary shops." No, the chemist does not need the backing or authority of any general trade organisation. He himself can give the guarantee.—Yours faithfully,

SQUARE DEAL (23/4).

Historical Auction Lots

SIR,—The note on "Historical Auction Lots" in a recent issue of the C. & D. illustrates what finds are revealed in auction rooms, antique shops and the like. The professional collector appears to have the gift of discovering articles, often valuable ones, which the amateur misses. A friend of mine can generally tell me, for instance, where certain pharmacy jars are to be found in different parts of London—in fact, these and similar articles are sometimes offered to him at prices which make one's mouth water. The fact is that there are still scattered about the country, in all sorts of out-of-the-way places, articles which although not particularly valuable to-day may rapidly become so. Another friend recently purchased a case of surgeon's instruments of the pre-Lister period: he gave only £2 for it. The handles are of ivory beautifully carved, the steel is well tempered; and although the age of the articles is not less than sixty or seventy years there is very little rust. Pharmaceutical curiosities are often found and should be treasured; one of these days we shall have a museum for the trade where such will find a home. I remember that where I was apprenticed we had among our curiosities a feeding bottle with a soft lead teat; such would be valuable to-day as a curio. There were also several brass enemas in sections, in padded mahogany cases. I appeal to pharmacists generally not to destroy needlessly articles which have been superseded; these, with old business records, will yet be appreciated at their proper value.

Yours, etc.,

COLLECTOR (26/2).

A Questionable Expense

SIR.—The value of the Registers of Pharmaceutical Chemists and Chemists and Druggists published annually under the direction of the Pharmaceutical Society of Great Britain, as a work of reference, is unquestionable. This year an attempt has been made to extend the sphere of usefulness by means of a supplement in which the names appearing in the Register have been classified into territories. I am not quite clear as to the object of this supplement, but it is presumably published with the view of assisting manufacturers, distributors and others who, in the course of business, find it profitable to circularise pharmacists. Before accepting this territorial classification supplement to the Register as a compilation of value in circularising likely buyers, however, it is pertinent to inquire what are the buying potentialities of the 22,000 whose names appear in the list. In this connection figures quoted at a recent meeting (*C. & D.*, March 30, p. 378) are of considerable interest, as it was then stated by one who is likely to possess accurate knowledge of the facts that in 1934 there were some 13,000 chemists' shops. It was estimated, however, that from 3,500 to 4,000 were company shops, and that of these 2,500 were branches of the two or three most important groups. It follows, therefore, that the number of what may be described as privately owned chemists' shops is about 9,000. Yet to use the supplement as a mailing list is to involve the sending out of 22,000 circulars, more than half of which represents waste of money and time. The cost of producing the supplement to the Register, I may add, is not likely to be low; and in the light of what I have mentioned, the question of its continuation is one for every chemist.—Yours, etc.,

SCPTIC (16/4).

Thevetin

SIR.—The B.B.C. must be hard up for news to have served up as an epoch-making event the discovery of a so-called new drug for heart disease. Thevetin was isolated from the yellow oleander, *Thevetia Neriifolia*, by de Vrij long years ago, as recorded in the 1891 edition of the U.S. Dispensatory. The same glucoside was obtained by Herrera in 1877 from the seeds of another tree of the same order, *Thevetia Yccotli*. Its physiological action was studied by Dr. Cerna, who found it stimulant to both circulation and respiration in moderate but highly poisonous in large doses. The Common Oleander, *Nerium Oleander*, yields principles of like character. Pelikan experimented with it in 1866, and found the action similar to that of digitalis. H. G. Greenish was another investigator, while Dr. Pouloux affirmed that under the action of oleander in valvular heart disease "the beat became regular and the filiform imperceptible pulse full and hard." Truly there is nothing new under the sun!—Yours, etc.,

C. S. ASHTON.

Brighton.

[There are two points of interest in the article referred to which perhaps Mr. Ashton has overlooked. (1) The recent work seems definitely to have established thevetin as a cardiac glucoside; and (2) Dr. Chen, having exhaustively studied ephedra, is now engaged on a similar work on Be-still nuts, which have not been apparently subjected to present-day methods of scientific investigation.—EDITOR.]

Women in the Pharmacy

SIR.—Reading the London examination results (*C. & D.*, April 20, p. 494), I notice that out of the thirty-eight students who passed the Chemist and Druggist Qualifying examination fourteen were ladies, and I wonder whether this was the usual percentage or whether it represented an increase. I must say I have found lady dispensers neater and more painstaking than many men, and in the sale of toilet goods they are far more successful than men; but I am not sure that they are in the right place behind what I may call the pharmacy counter. Practically all men and a large number of women customers prefer to be served by a male chemist with drugs and medicines, especially when they wish to ask for some advice.

Faithfully yours,
LADIES' MAN (24/4).

Dispensing Notes**Mercurochrome in Paint**

D. J. O. (8/9) asks for advice on the compounding of the following paint. As there seemed to be no way of dissolving the mercurochrome, he rubbed it up in a glass mortar with the pantocain, using a minimum amount of distilled water. When he had dissolved as much as possible, he added the glycerin—with "disastrous" results. A thick substance formed in the bottom of the mortar.

Mercurochrome	...	...	...	20 gr.
Glycerin	...	...	...	1 oz.
Pantocain	...	...	...	20 gr.

[We have made a solution of mercurochrome in glycerin. The pantocain also dissolves in glycerin by gently warming—a warm mortar is sufficient. The two glycerin solutions should then be mixed together. There does not appear to be a precipitate when pure anhydrous glycerin is used in this way. A test-tube experiment shows a perfectly clear bright solution. With water a very different result is noticed immediately, as mercurochrome precipitates most alkaloids and alkaloidal substances. Benzocaine, procaine, stovain and numerous other similar preparations are precipitated. Your mistake was to use water to make a solution.]

A Case for Suspension

When the following prescription was dispensed by "S. G." (15/1) a brownish precipitate was thrown out. The tr. quinin. ammon. was added last.

Liq. ammon. acet.	...	...	...	3jss.
Potass. cit.	...	...	...	3ss.
Tr. quinin. ammon.	...	...	...	3ij.
Glycerini	...	...	...	IIIxv.
Aq. chlorof.	...	...	ad	3jss.

[The quinine of ammoniated tincture of quinine is thrown out when mixed with the above salts in water. It does not fall to the bottom but clings to the sides of the bottle as a sticky mess. This is prevented by using concentrated solution of ammonium acetate, with mucilage of tragacanth 1½ oz. to the 8-oz. bottle. Mix the tr. quin. ammon. and glycerin together and pour into the remainder of the mixture made up to about 6 oz., and finally make up to 8 oz. Do not forget that the amount of chloroform water is only about 3 drachms in all. If the liq. ammon. acet. is strongly alkaline the quinine alkaloid comes out in small lumps throughout the bottle. The solutions of acetate and potassium citrate should be rendered almost neutral or slightly acid with citric acid. Label "Shake the bottle."]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Address Wanted

Mr. Samuel T. Fletcher, Etablissements Georges Miquel, 3 Avenue Lowndal, Paris, inquires for the address of Mr. T. (?) Richardson, formerly a fellow assistant with him and afterwards proprietor of a business in Portsmouth or Plymouth.

Shops Act Worries

The pharmacists who are most likely to be worried by the Shops Act, 1934, are those who are proprietors of lock-up shops, especially when these are in charge of managers. At the present time shop premises are being put up in every possible place, and many of these are converted private houses. In the rush for rents one house means two shops with offices over. The shops are merely three walls with a shop front; the space for complying with the new regulations is simply non-existent, and if the phrase "sufficient washing facilities" is interpreted to mean a separate room with fitted lavatory basin, etc., the position is hopeless. With regard to maintaining a reasonable temperature, the chemist's shop is noted for its ever-open door, and to keep the door closed means an immediate drop in the takings. I have found it to be so many times.—*Lokkup* (9/4).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. T. C. (1/4).—CATTLE SHAMPOO.—A solution of soft soap with a slight excess of alkali and perfumed with, say, methyl salicylate would meet your requirements. An alternative preparation is:—

Coconut oil soap	...	...	...	1 oz.
Distilled water	...	...	...	4 oz.

Dissolve with heat and add:—

Liquefied phenol	...	...	...	20 ml.
Eucalyptus oil	...	...	...	5 ml.

Allow to stand and filter.

M. & S. (1/4).—CATARRH MIXTURE.—The following is the formula for Catarrh Mixture, P.F. 4, published in *The Chemist and Druggist Diary*, 1926:—

Tr. capsici,	...	...	...	aa. 3xxiv.
Tr. tolu	...	...	...	aa. 3ij.
Ol. menth. pip.	...	...	...	3ij.
Spt. camph.	...	...	...	3ij.
Spt. chlorof.	...	...	...	3ij.
Spt. amm. arom.	...	...	...	3iv.
Syr. simp.	...	...	ad	3xxiv.

S. L. (26/3).—ASTHMA CIGARETTES.—There are a number of formulas for asthma cigarettes in "Pharmaceutical Formulas," Vol. I, from which we select the following:—

Stramonium leaves	...	...	...	4 oz.
Cascarella bark	...	...	...	½ oz.
Lobelia leaves	...	...	...	2 dr.
Mullein leaves	...	...	...	4 oz.

Espic Cigarettes

Belladonna leaves	...	...	...	30
Stramonium leaves	...	...	...	15
Henbane herb	...	...	...	15
Phellandrus fruit (coarse powder)	...	...	...	5

Sprinkle with a solution of:

Opium extract	...	...	...	1·3
Cherry laurel water	...	...	...	a sufficiency

Dry and make into cigarettes. For asthma, 2 to 4 cigarettes are smoked daily.

J. A. D. (28/28).—WORMS IN DOGS.—The following are representative formulas for worm powders for dogs:—

	I	II	III	IV			
Santonini	gr. iij.	Calomel	...	...	gr. j.
Podophyllini	gr. ss.	Santonini	...	...	gr. ij.
Arecae pulv.	gr. xx.	Arecae pulv.	...	...	gr. x.
				Jalapae pulv.	...	...	gr. x.
Arecae pulv.	gr. xx.	Antim. tart.	...	...	gr. iij.
Santonini	gr. ij.	Ferri sulph.	...	...	gr. x.
Jalapae pulv.	gr. xl.	Santonini	...	...	gr. ij.
				Kamalae pulv.	...	...	gr. xx.

No food should be given for a few hours prior or subsequent to the medicine. It is advisable to give a dose of castor oil about twenty-four hours after the powder, a second of which can be administered in a few days if required. The dose should be adjusted according to the size and age of the animal.

G. E. M. (1/38).—BOOK ON TEA.—The book which seems to provide the best all-round knowledge of the subject is Harler's "Culture and Marketing of Tea" (Milford), 12s. 6d. There is not, so far as we are aware, a volume on blending, as such operations require the expert services of a tea taster.

L. E. P. (8/28).—INK STAIN REMOVER.—An extensively used and popular two-solution ink stain remover consists of:—

- (A) Solution of chlorinated lime.
- (B) Dilute acetic acid.

The stain is first touched with the former and when the solution has soaked in the acetic acid is applied. Afterwards the chemicals should be removed by rinsing or by applying moist blotting-paper. These solutions are particularly useful for removing ink-stains from paper.

D. H. (5/28).—BISMUTH CHLORIDE AS A HAIR DYE.—We have been unable to trace any reference to the use of bismuth chloride as a hair dye in the authoritative works of reference on this subject. Your inquiry was also submitted to an expert on the subject of hair dyes, who informs us that he has no knowledge of the use of bismuth chloride for this purpose. The following are two formulas for bismuth hair restorers in which bismuth subnitrate or bismuth citrate is used in conjunction with sodium hyposulphite:—

Bismuth Hair Restorer

I

Bismuth subnitrate	...	...	...	3ij. gr. xx.
Water	...	...	...	3ij.
Nitric acid	...	...	...	3v.

Mix the bismuth with the water in an evaporating bath, heat, and add the acid drachm by drachm until solution is effected. Then pour into the following solution:—

Tartaric acid	...	...	...	3iiss.
Sodium carbonate	...	...	...	3ij. gr. 50
Water	...	...	...	3xxxij.

Collect the precipitate on a calico strainer, wash well with water, drain, and dissolve in a sufficiency of strong solution of ammonia. To the solution add

Sodium hyposulphite	...	...	...	gr. c.
Glycerin	...	...	...	3j.
Water	...	...	...	3ij. or a sufficiency

The product should measure 8 oz. It is to be used like the lead restorers, and imparts a brown colour to the hair. For a black the application must be followed by ammonium sulphide solution.

II

No. 1 Bottle

Bismuth citrate	...	...	...	50 gm.
Alcohol	...	...	...	33 gm.
Rose water	...	...	...	200 gm.
Distilled water	...	...	...	300 gm.

Solution of ammonia, sufficient to produce complete solution.

No. 2 Bottle

Sodium hyposulphite	...	...	...	120 gm.
Distilled water	...	...	...	400 gm.

The hair is first well washed with soap and water to remove fat and a little of the No. 1 solution is rubbed into the hair; on the following morning it is treated with fluid No. 2.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," April 15, 1885

Market Depression

The hopeful signs of a coming revival in trade, which were noticeable in January and February last, have unfortunately given place to decided depression, and our markets, taken generally, have seldom borne a less cheering aspect than at the present moment. Serious as affairs in the Sudan have become, they are now almost eclipsed by the growing gravity of the Afghan frontier question, and hopes of a continuance of peace between this country and Russia have given place to serious apprehensions that war can no longer be averted. The excitement of last Thursday has seldom before been witnessed in the London Commercial Sale Rooms. . . . Message after message bearing upon war matters gave fresh food for excitement. . . . The Board of Trade returns are lamentable, the exports for last month showing a decrease of nearly 10 per cent. upon the same month of last year. . . . Quinine.—Further reductions have been made in prices, which are now as follows:—Howards: 3s. 10d. (bottles) per oz. [In April 1884 the price was 6s. per 1-oz. bottle.]

Peldo

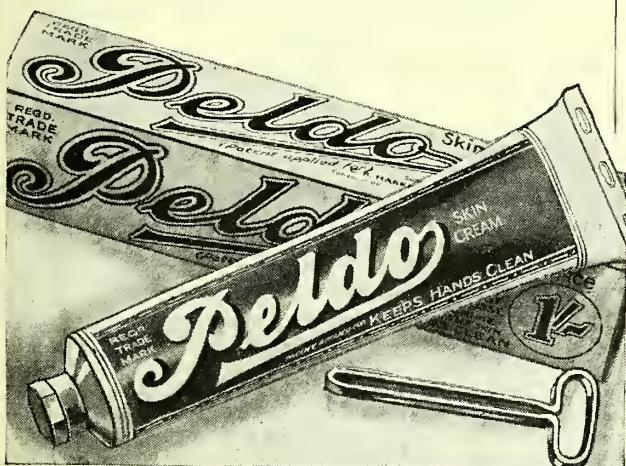
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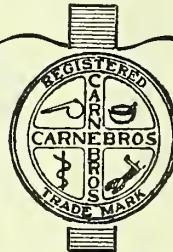
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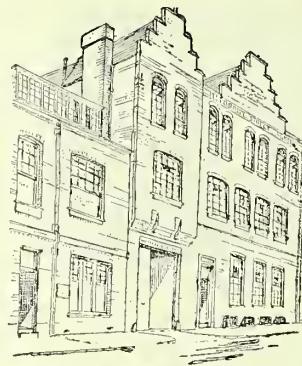
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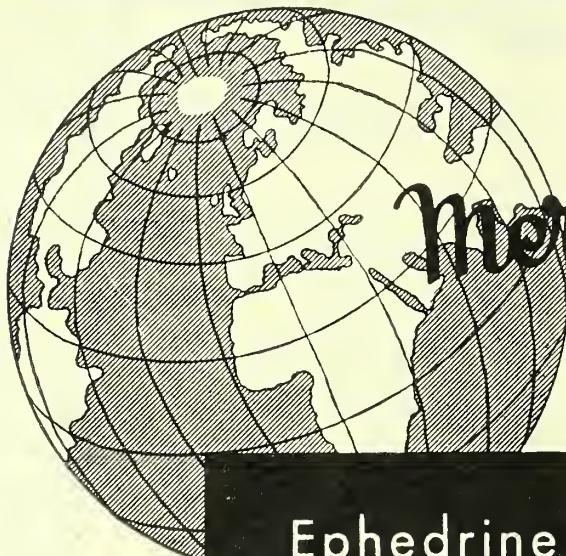
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12 " " £16-16-0 " 8 3/4% " "
CARRIAGE PAID PACKING FREE

ASSORTED ORDERS

"CLARKES" Brand	Retail	Per doz.
"BLOOD MIXTURE" (Liquid and Tablets)	3/-	28/-
"BLOOD MIXTURE" (Liquid only)	12/-	112/-
SKIN LOTION ...	1/3	11/8
SALVE	1/3	11/8
"	3/-	28/-
"	5/-	46/8
APERIENT PILLS ...	1/3	11/8
" " ...	3/-	28/-
MEDICATED SOAP		Doz. tablets
Box 3 tablets ...	2/6	7/10
Single tablets ...	1/-	

Orders may be assorted as desired at above rates provided they reach minimum values, as follows :

£4 - 4 - 0 less 3 3/4% one month

£16 - 16 - 0 " 8 3/4% " "

CARRIAGE PAID PACKING FREE

ORDERS may be sent direct or through the usual wholesale houses.

**The Lincoln & Midland Counties Drug
COMPANY, LIMITED
PARK STREET, LINCOLN**

Telegrams: "Lindum, Lincoln." Telephone: Lincoln 55

10%

**EXTRA
PROFIT**

**OVER AND ABOVE
THE USUAL DISCOUNTS**

This is the average extra profit, consequent upon de-stamping, provided for you by the new

Licoricine
ACTS LIKE MAGIC
BRAND

PRICE LIST

Obtain details from your Wholesaler.

RETAIL PRICES REMAIN UNCHANGED

ISSUED BY
MANDALL & CO., LTD.
TOWER WORKS
NEWCASTLE-ON-TYNE

100%
'CHO-ZEN'
CHINA TEA

SOLD ONLY BY CHEMISTS

Write for FREE SAMPLE, TRADE TERMS and details of SALES PROMOTION SCHEME to:
KEMSALES, LTD., Dept. C.D.
20 Eastcheap, London, E.C.3

CAVENDISH CHEMICAL CO. (NEW YORK) LTD.

137 Regent Street, London, W.1

ATOCIN tablets for Rheumatism, Lumbago, etc.

BISMOLAN suppositories and ointment

CARNACTON ampoules and for oral administration

CAVODOL Cod Liver Oil Compound Tablets

CAVODOL Cod Liver Oil Extract tablets with Iron and Colloidal Copper

ELIXIR NEUROGENIC (Cavendish) Tonic

LIPOLYSIN (Cavendish) tablets and ampoules

LECITHIN-YOHIMBIN tablets and Silver pills

PANCRESALETS for Diabetes Mellitus

TESTONAD and OVANAD tablets

YOHIMBIN tablets and ampoules

Literature and further information on request

PERSISTENCE PAYS IN ADVERTISING



SHOW 'ASPRO' DISPLAY MATERIAL CONTINUOUSLY AND DOUBLE YOUR SALES

It definitely pays to show continuously a commodity which is continuously advertised. Furthermore, the greater the amount of money spent on advertising it, the greater are the sales for those who continuously display it in their windows. From an economic standpoint 'ASPRO' must have a great appeal to your consideration in this respect . . . for 'ASPRO' is the most **CONTINUOUSLY** advertised line and is supported by the **LARGEST** advertising appropriation for any line of its kind in the world. So keep showing 'ASPRO' and you keep selling 'ASPRO'. Furthermore, an 'ASPRO' window display brings dozens of customers into your shop who might not otherwise have come. Let us suggest then that you give 'ASPRO' a continuous display for, say, the next month or two—keep a check on your sales—notice the number of customers it brings into your shop who naturally buy other goods—then you can prove what a great stimulus 'ASPRO' advertising is to your general sales and general satisfaction.

BONUS ON 'ASPRO' 5's

A bonus of $\frac{1}{2}$ dozen packets of 5 on each $\frac{1}{2}$ gross order is now given on the same terms as the other sizes. Take advantage of this valuable concession.



**ANOTHER 'ASPRO'
SELLING AID—
CHEMISTS' BAGS
AND ENVELOPES**
PRICES ARE :—
Kristal Envelopes - 2/6
Greaseproof 2oz. Bags 1/-
Greaseproof 2oz. Bags
(long) - - - 1/6
Cash with Order.

Agents:

GOLLIN & CO. PTY. LTD.
('Aspro' Dept.), SLOUGH, Bucks.
Telephone, SLOUGH 608

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by **ASPRO** Ltd., Slough
ENGLAND

No proprietary right is claimed in the method of manufacture or the formula.

'ASPRO'
REG. TRADE MARK



LONDON DEPOT:
292 UPPER STREET, ISLINGTON, N.1

FAIRY DYES, LTD., GLASGOW, N.W.

Fairy Dyes

**It pays to
Concentrate
on
Advertised goods**

FAIRY DYES

are well advertised in the National Press and Ladies' Journals. They meet with a large and steadily increasing demand.

Sold at the popular price of 2d. per tube retail—attractively packed. 31 shades and colours.

See that your stocks are up-to-date.

40 - YEAR - OLD



that to-day sells
"better than ever"

Box's 1935 Sales Drive is
"rounding-up" the old
customers and creating new
buyers—good business for
YOU—if you stock and
display this famous remedy.

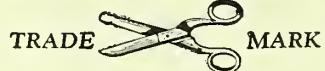


BOX'S PILLS

ON P.A.T.A. LIST
RETAIL PRICES
1/3, 3/-, 5/-, 12/-, 22/-

Sole Mfr., W. H. BOX, Giant Pill Manufactory, 161 King St., Plymouth

**PERRY'S
POWDERS**



GIVE A GOOD RETURN

NICE TO HANDLE—EASY TO SELL
Wholesale from PERRY'S POWDERS, Ltd., LEEDS

ERGOAPIOL-(Smith)

REG. U. S. & FOREIGN COUNTRIES

CONSTANT Prescription demand is assured by our
continuous and extensive advertising campaign.
Supplied only in packages of twenty capsules each.
For the mutual protection of the ethical pharmacist and our
product, the initials "MHS" are embossed on the inner surface of each cap-
sule, visible only when capsule is cut in half at seam as shown.

MARTIN H. SMITH COMPANY
NEW YORK, N.Y., U.S.A.

THOS. CHRISTY & CO., LTD., OLD SWAN LANE, LONDON, E. C. 4

Agents for Great Britain and Ireland



FIVE OF THE BEST FOR 1935

YEAR after year the demand for these famous Genatosan lines steadily increases. Doctors and dentists regularly prescribe and use these products because they fully justify the claims made for them, resulting in PUBLIC CONFIDENCE. Display these five products frequently, and link up with the extensive all - the - year - round advertising. Profits are generous —particularly if you buy on Direct Cash Terms.★

★ If you have not already taken advantage of these special terms, write for full details — forwarded by return.

GENATOSAN *Limited*

LOUGHBOROUGH, LEICESTERSHIRE

Phone: Loughborough 292.

Grams: "Genatosan, Loughborough."

SANATOGEN
The True Tonic Food

GENASPRIN
The Safe Brand of Aspirin

CYSTOPURIN
The Perfect Internal Antiseptic

GENOZO
TOOTHPASTE Brand

WULFING BRAND
FORMAMINT
The Germ-Killing Throat Tablet

AN INNOVATION IN

RHINO - PHARYNGEAL
THERAPYANAQUINTINE
NASAL DROPS

Brand

Utilising Dr. Lescene's
Drop-Counting Instillator

—ALDEHYDES, THYMOFORM, EUCALYPTOL, EPHEDRINE—

Bottle of 22cc. complete with Instillator

Retail
3/6Wholesale
31/6 per doz.Your co-operation in promptly obtaining
supplies when required will be appreciated.

Telephone: Holb. 6011. Telegrams: Ampsalvas, London

THE ANGLO-FRENCH DRUG CO., LTD.

11-12 Guilford Street, London, W.C.1

W.B.DICK & CO. LTD


BY APPOINTMENT TO H.M. THE KING

PARAFFINUM LIQUIDUM B.P.
ALL SPECIFIC GRAVITIES GUARANTEED TO REMAIN BRIGHT AT 0°C.

B.P. WHITE & YELLOW PETROLEUM JELLIES

WHITE AND HALF WHITE OILS

SEND FOR SAMPLES AND QUOTATIONS (WHOLESALE ONLY)

26 GROSVENOR GARDENS, LONDON, S.W.1
Telephone Sloane 3461 (7 lines)
Telegrams "Dicitto, Phone, London."

GLASGOW, LIVERPOOL, NEWCASTLE,
CARDIFF AND NEW YORK.



Rexall

DRESSINGS AND PLASTERS

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Results of Window Dressing Competition organised by the United Drug Company Ltd., for Rexall Chemists.

FIRST PRIZE Cheque for £20 to

W. A. Bales, M.P.S., 19, Earlsdon Street, Coventry

for best use of posters and window cards supplied by United Drug Co. Ltd., and for novel ideas introduced by the Chemist.

SECOND PRIZE ... £10.0.0 W. T. Sprigings, Ph.C., Wallasey, Cheshire.

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FOURTH PRIZE ... £3.3.0 A. A. Godkin, M.P.S., Tunbridge Wells.

CONSOLATION PRIZES: Cheques for 21/- each to: G. W. Riley, Handsworth, Birmingham. Herbert Hodgson, Horsforth, Leeds. J. Raw, Stretford, Manchester. G. G. Ramsay, Burnside, Glasgow. Alex Miller, Gorebridge, Scotland. Emlyn Mantle, Pontllanfraith. Hanna's Pharmacy, Bangor, N. Ireland. R. W. Wakeford, Hayle, Cornwall. S. Robinson, Blaenavon, Mon. Bullock & Son, Manor Park, E.12. A. E. Davidson, Leicester. Claude Benton, Norwich. J. A. McRoberts, Belfast. G. G. Ramsay, Rutherglen, Glasgow. A. Chalmers, Newport, Fifeshire.

UNITED DRUG COMPANY LTD., NOTTINGHAM

C.F.H.

Supreme in their class

AGOCHOLINE

Combination of Magnesium Sulphate and Meat Peptone, used as a cholagogue and cholecysto-kinetic.

PASSIORINE

Fluid extract of Passiflora Incarnata, circulatory and nerve sedative. A non-toxic preparation.

OPOCALCIUM

A remineralising agent composed of mineral salts and gland extracts. Recommended for Tuberculosis, Rickets, &c.

DR. BENGUÉ'S BALSAM

Gives almost instant relief in cases of Rheumatism, Neuralgia, Lumbago, &c.



Bengue & Co.

24 FITZROY ST., LONDON, W. I.

'Phone:
Museum 1644

'Grams:
"Anestile, London"

See that you hold Stocks of this Safe & reliable Family Remedy

ESTABLISHED OVER 80 YEARS
AND STILL IN UNIVERSAL DEMAND

Dr. Collis Browne's
CHLORODYNE

ORIGINAL AND ONLY GENUINE

**80 YEARS'
WORLD-WIDE
REPUTATION**

Please order from your Wholesaler with
other goods

Sole Proprietors:

J. T. DAVENPORT LTD.
UNION STREET, LONDON, S.E.1

**SOLD ONLY
THROUGH
CHEMISTS
SIZES 1/3, 3/-**

PHOSFERINE PREPARATIONS!

**GOOD
"ALL THE YEAR ROUND"
LINES**

PHOSFERINE *Brand Tonic*

The Greatest of all Tonics

PHOSFERINE HEALTH SALT

The Tonic Laxative "Tones as it Cleanses"

SANACINE COUGH MIXTURE *Brand*A Phosferine Product for Coughs, Colds,
Throat, Chest and Lungs**PHOSFERINE TONIC WINE**

Grateful and Comforting

PHOSFERINE (Ashton & Parsons) LTD.

LA BELLE SAUVAGE, LUDGATE HILL, LONDON, E.C. 4



Samples from Head Office, Thomas Street, DUBLIN, or
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CHEMISTS KLX Calling ORDER NOW

Special Bonus offer of one box of 2/6 KLX Brand Tablets given with every counter display box of six 2/6 boxes. Cost 10/6 per outer. Selling at 17/6 retail (seven boxes) showing profit of over 60%.

Booklets and showcards will be sent to all enquirers.

Send order direct to proprietors:

**MICHAEL HART & CO. LTD.
21, CAVENDISH SQ., LONDON, W.1**

Paraffinum Liquidum B.P.

ALL
GRADES
SAMPLES & PRICES
On application
to
Sterns Ltd.
16, Finsbury Sq. London E.C. 2

ALSO
TECHNICAL
QUALITIES

Telephone: National 7644 (7 lines).
Telegrams: Centumvir, Phone, London.

PARAFFINUM
LIQUIDUM
B.P.
HIGH
VISCOSITY

TECHNICAL
WHITE
and
HALFWHITE
OILS

WHITE
PETROLEUM
JELLY
PHARMACEUTICAL
AND
TECHNICAL
Qualities

HOLROYD'S
OIL & CERESINE COMPANY LIMITED

3 NEW LONDON ST., LONDON, E.C.3.

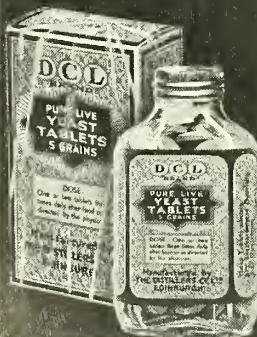
TELEPHONE: ROYAL 5126-7
TELEGRAMS: ERRIKOLROY, FEN, LONDON.

DCL

YEAST

FOR
MEDICINAL
USE

IN TABLET FORM



60 Tabs. 1s. 6d.
120 Tabs. 2s. 6d.

Retailers' discount 33 1/3%
Wholesalers' " 16 2/3%
CARRIAGE PAID

Recommended for improving the condition of the blood, and for treatment of skin eruptions. Should retailers experience any difficulties in getting supplies through usual channels send a postcard to the manufacturers.

The DISTILLERS CO.
EDINBURGH Ltd.

NOW IS THE TIME TO ORDER
DOLS' VOLATALISE FLANNEL

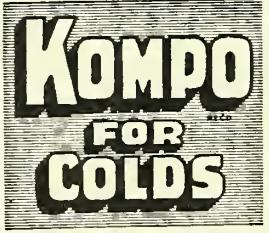
The Wonderful Remedy for RHEUMATISM, NEURITIS, SCIATICA, etc.
Write to DOLS' VOLATALISE FLANNEL LTD., VIADUCT ST., HUDDERSFIELD

PHOSPHATE OF SODA, Pure

For Food Purposes
ASK FOR SAMPLE AND PRICES

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL
Telephone: Giffnock 414 (2 lines). Telegrams: "Perryope Nitshill."



Wholesale
Prices

1/3 Size
11/6 per dozen net
3/- Size
27/6 per dozen net

Carriage Paid Gross Quantities
or equivalent.

Manufactured only by
J. F. WHITE & CO., Chemists
BENSON STREET, LEEDS.
Counter Bills free on application.

TO THE TRADE:

OWBRIDGE'S LUNG TONIC IS PREPARED FROM THE
FORMULA OF THE LATE W. T. OWBRIDGE, M.P.S.

AND CARRIES

A GOVERNMENT STAMP

to protect our Proprietary Rights

Our Price

In 1-gross lots, 1/3 size, £6.12.0
In 1-doz. lots, 3/- size, £1.7-0

Your Returns Retail

1 gross 1/3, £9.0.0, 36½%
1 doz. 3/-, £1.16.0, 33½%

Direct or Through your Wholesale House

WE SUPPLY

DECORATED TINS FOR PACKING OINTMENTS

AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.
CALDICOT, Nr. CHEPSTOW, Mon.

MEET THE CONSTANTLY
INCREASING DEMAND FOR

PURE BEER ALE OR STOUT EASILY MADE AT HOME



FOR 1 D PER PINT FROM

VIGGORMALT

(REGD.)

IMPROVED AND PERFECTED

PURE TRIPLE-STRENGTH EXTRACT OF

RICH MALT and CHOICE HOPS

Free Yeast Packed with each Tin • Your Customer Simply Adds Cold Water

FIRST SIZE 1/- PER TIN 3 times quantity 2/6 8 " 5/6 13 " 8/- TIN

Write for Show Material and Liberal Terms to the Distributors: — FASSETT & JOHNSON, LTD., 86, Clerkenwell Road, London, E.C.I.
Sole Manufacturers — VIGGORMALT LTD., Hove, Sussex

COMPOSITION STOPPERS
BAKELITE MOULDINGS
COMPACTE COSMETIC & ROUGE BOXES

200 Varieties
Any Colour.

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.

W. J. SHARPLIN, Ltd.

Middle Lane Works, Hornsey, LONDON, N.8



Telephone: Mountview 0952

ZEAL

Clinicals

The Choice
of Experts

BRITISH
MADE

NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES

Also Household, Bath
and Works Thermometers,
the best of their kind

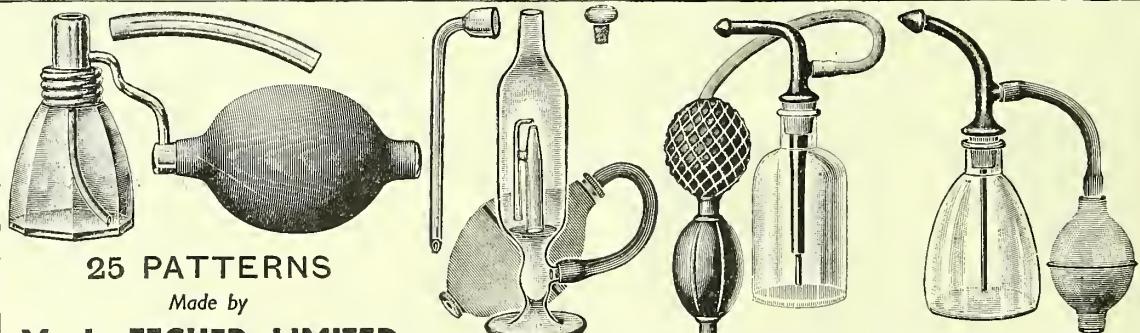
G. H. ZEAL LTD.
MORDEN RD., MERTON,
LONDON, S.W.19
Phone: Liberty 2283-45



Armstrong's

TAPER  CORKS

ARMSTRONG CORK CO. LTD.,
ALDWYCH HOUSE, LONDON, W.C.2



25 PATTERNS

Made by

M. J. FECHER LIMITED
10 DOD STREET, LONDON, E.14

ASK FOR ILLUSTRATED WHOLESALE LIST.

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SOL-VO SELLS ITSELF



SOL-VO gives a good margin of profit to the Chemist and is economical for the customer because it contains nearly three times as much paper as the "so-called" cheap varieties. It pays to stock and display SOL-VO. Why not give it a trial?

FORD, SHAPLAND & CO. Ltd.

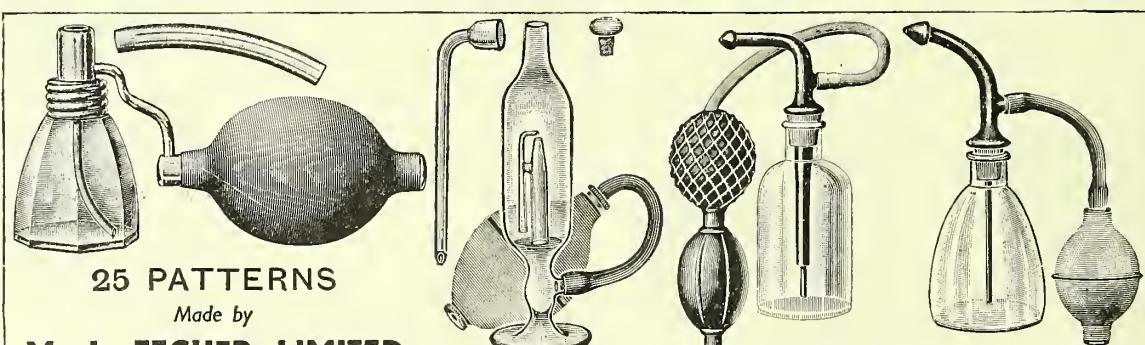
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LONDON, W.C.1

Telephone: Holborn 4695.



- The "ORIGINAL" and most popular.
- The "CELTEX" soluble, easily disposed of.
- The "K" made entirely of absorbent cotton wool, with very soft cover.
- The "COMPRESSED" for travelling. A very popular line.

SOUTHALLS (BIRMINGHAM) LTD.





Special Introductory 5% Bonus Offer!

We have decided that, in order to assist retailers in obtaining bigger sales, we shall introduce a new and attractive carton for the dozen and half dozen boxes of 'Camelia' Soluble Sanitary Towels. All orders placed up to and including May 31st will be subject to a special 5% bonus on orders as follows:—

**6 dozen assorted any price
(2 doz. 6d. size to count as 1 dozen).**

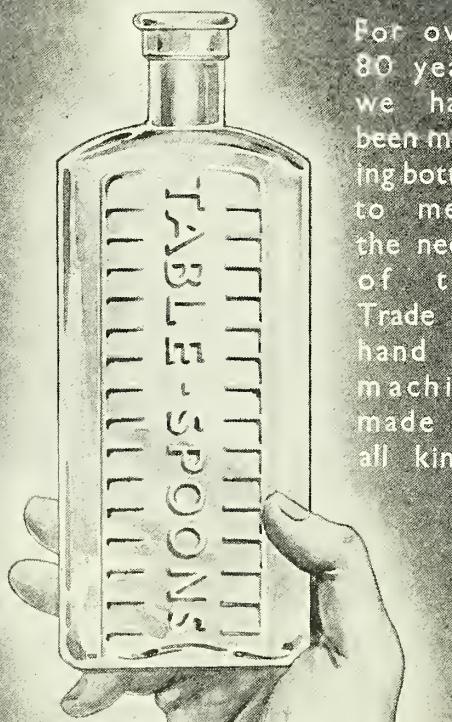
Place your order now, and do not fail to take advantage of this attractive offer. 'Camelia' Soluble Sanitary Towels are entirely British-made and are made from the finest quality cellulose tissue and cotton gauze. Remember, 'Camelia' was the first nationally advertised Soluble Sanitary Towel. Awarded the Silver Seal of the Institute of Hygiene. Take stocks of the new box.

CHAPPELL, ALLEN & CO. LTD.
'Camelia' Department,
136/7 LONDON WALL, LONDON, E.C.2
Telephone - Metropolitan 1054/5/6.

BOTTLES

THAT ARE BETTER

British Made



For over 80 years we have been making bottles to meet the needs of the Trade in hand or machine made of all kinds.

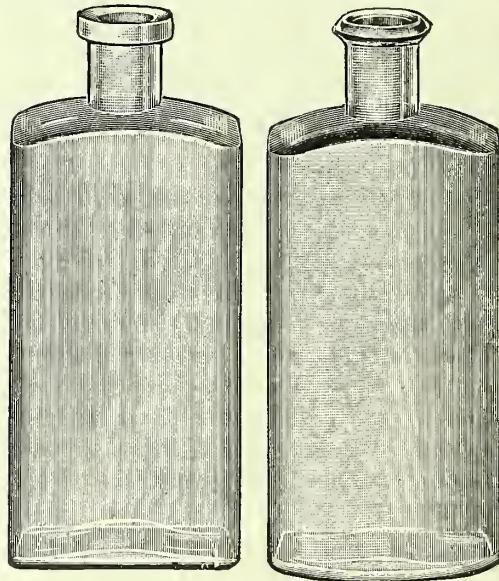
MEDICALS
POISONS
EMBROCATION
PERFUME &c.

FREDERICK
HAMPSON
LIMITED

Perseverance Glass Wks.
SALFORD 5
ESTABLISHED 1851

BEATSON, CLARK
& COMPANY, LIMITED
Chemical and Medical Glass
Manufacturers,
ROOTHERHAM, YORKS

The Chemists who are doing the business are the Chemists who turn the work out well



Round Cornered Flat

Oval Fronted Flat

There is no better help than a smoothly finished, bright, attractive bottle

**REASONABLE IN PRICE
SATISFACTORY in FINISH**

Telegrams :
BEATSON, ROTHERHAM

'Phone 1
No. 88, ROTHERHAM

ESTABLISHED 1751

THE DEPENDABLE CONTRACEPTIVE

now available in an economical bulk tube

IT is now possible to prescribe Ortho-Gynol to many patients who have hitherto been debarred from its use by reason of cost. A five shilling bulk tube containing sufficient Ortho-Gynol for 15 to 20 applications is now obtainable to the prescription of Medical Practitioners. A refill of the same size but without the unbreakable applicator is available at the price of four shillings. Ortho-Gynol is independent of the variable-time, temperature and moisture.

THE DEPENDABLE CONTRACEPTIVE

Also available in the original box of 6 complete units (each with disposable nozzle); 4/6. Write for full details and trade terms:



Bulk Tube and Unbreakable Applicator 5/-
(contains sufficient for 15/20 applications)

Bulk tube only 4/-

Johnson & Johnson SLOUGH, BUCKS
(GT BRITAIN) LIMITED

Associated Companies: AUSTRALIA: Johnson & Johnson, Ltd., 194/200 York Street N. Sydney. S. AFRICA: Johnson & Johnson (Pty.) Ltd., 20 Pritchard Street, Johannesburg.

Representatives & Agents: INDIA, BURMA, CEYLON, SIAM, MALAYA,

EAST INDIES: A. A. Burton, P.B. 330, Bombay, India. CHINA & JAPAN: R. T. Down, Post Box 510, Chinese Post Office, Shanghai. SPAIN: A. Amechazurra, Modesto Lafuente 3, Madrid. NEW ZEALAND: Potter & Birks (N.Z.), Ltd., Adco Buildings, 14-24, Lower Federal St., Auckland.

CLINICALS

LIFETIME
ACCURACY

INDELIBLE
MARKINGS

EASY TO
READ

Now Presented
in
Individual Cartons

Highest Reputation
backed by
76 years of Manufacturing



"Adaptocaps"

will give
your bottles
Distinction

These Dry Bottle Caps are made in all sizes and colours, clear and opaque. They are Self Sealing, of unrivalled quality and BRITISH MANUFACTURE.

Special low rates for large contracts. Let us quote you.

The London Capsule Co

EMPIRE WORKS, MITCHAM RD., CROYDON

Telephone: Thornton Heath 3014

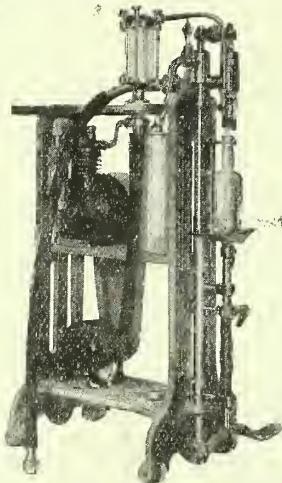
TABLET MACHINE PUNCHES AND DIES

In addition to being makers of Tablet Machinery of both Single Punch and Rotary types for sizes from $\frac{1}{8}$ in. up to 3 in. diameter, we have a special Department for the manufacture of PUNCHES AND DIES for all makes of Tablet Machines as well as our own, and in this work we have more than 30 years' continuous experience. Our production Machinery is specially designed for the purpose. The steel used is a very hard and tough stain resisting tool steel, which is first machined to oversize, then correctly Heat treated to give the correct hardness and temper. The parts are then machine ground to correct finished size and polished, and this is the only way to produce perfect Punches and Dies for Tablet Machines.

Send your orders along, our prices and delivery for first-class work are right, and you will get satisfaction, and we shall get credit and repeat orders. Our principal is a Chartered Mechanical Engineer of long experience.

S. W. WILKINSON & CO.
ENGINEERS & SPECIALISTS IN CHEMICAL & PHARMACEUTICAL MACHINERY
WESTERN ROAD LEICESTER

ROBERTS' PATENT
"LEO" VACUUM FILLER



for Glass, Stone, and Tin Bottles. Fills all sizes from drachm to quart—long, short or sprinkler neck.

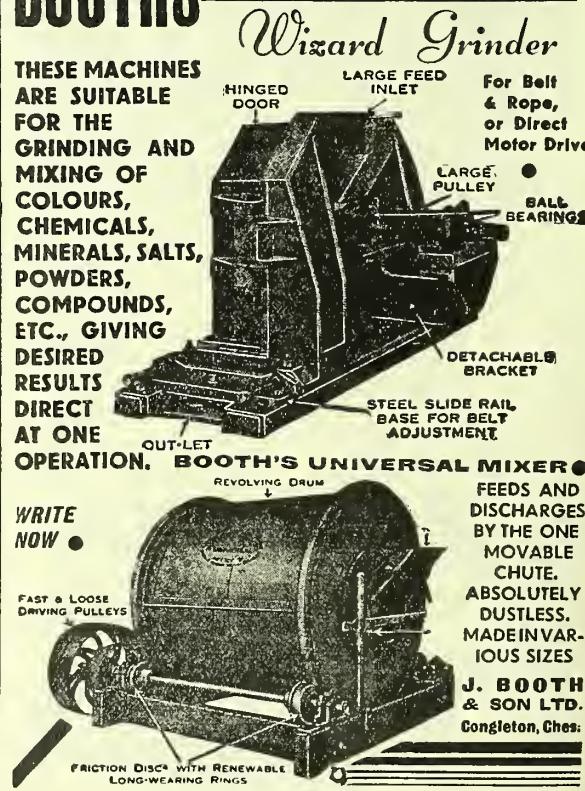
Clean and Rapid
No Over Filling
Broken Bottles
Rejected
Easy to Clean
Self Rinsing

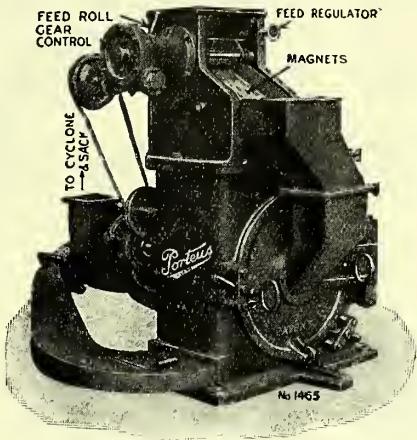
WRITE FOR PARTICULARS

Roberts' Patent Filling Machine Co.

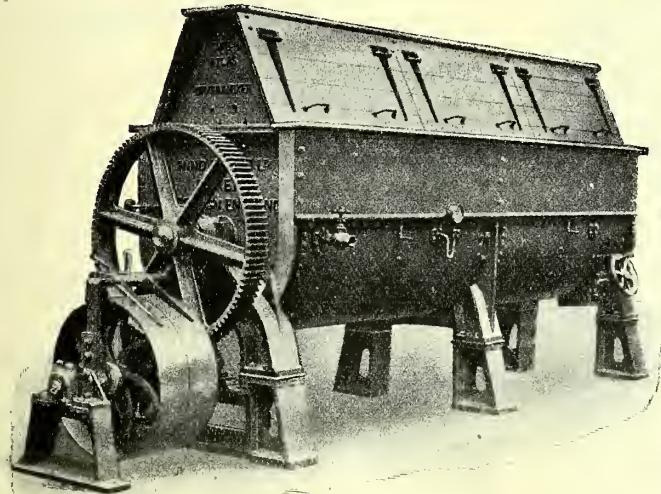
T. ROBERTS, Proprietor,
33 Roundcroft Street, Bolton, Lancashire
Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use.
ALL RIGHTS RESERVED

BOOTH'S GRINDERS & MIXERS



**BEATER-TYPE GRINDERS**

Porteus
LEEDS.

MIXERS AND SIFTERS

For grinding all kinds of spices, nutmegs etc.; cereals, seeds and all classes of grindable products. Motor coupled or countershank drive.

'PREMIER'

Cool grinding with Air inducted discharge to cyclone collector. Made in all sizes. A high-grade machine at a low price.

well built,
speedy, efficient
& TROUBLE-
FREE

ATLAS Mixers & Sifters are correctly designed, substantially constructed and really do stand up to the job. They can be made to suit all requirements for vacuum or

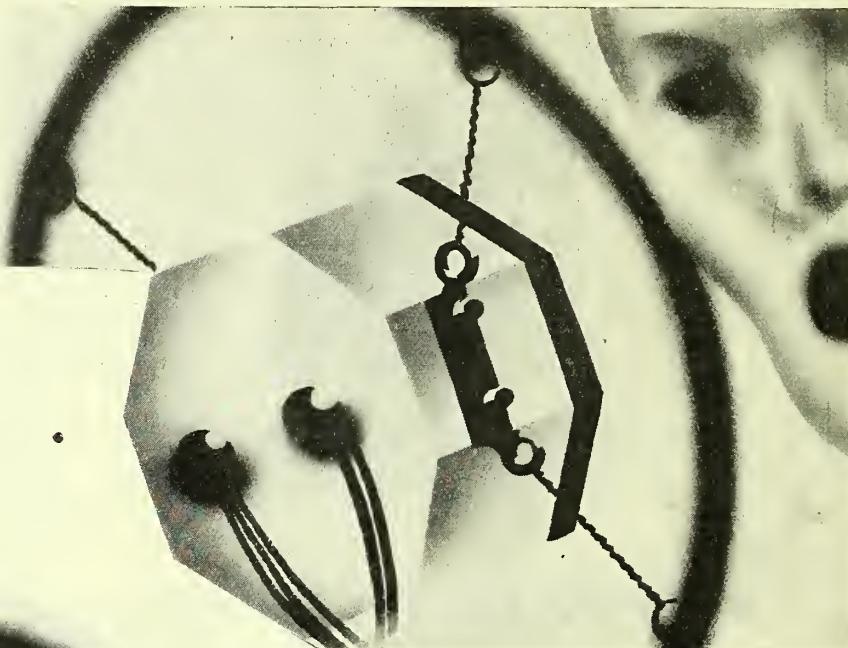
'ATLAS'

pressure with or without steam or water jacket. Send us your enquiries and let us advise a mixer or grinder to tackle **your** problem.

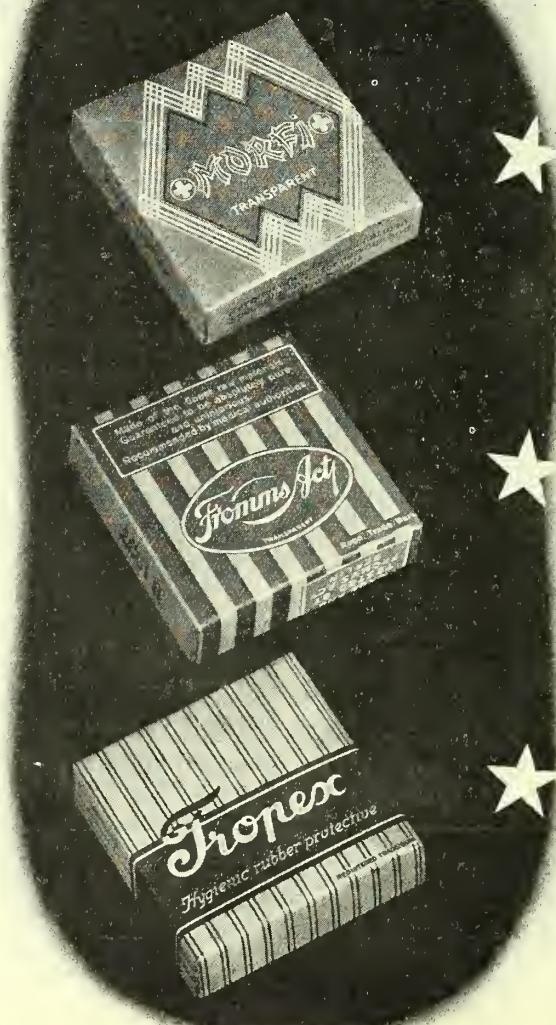
GEORGE PORTEUS & SONS (LEEDS) LTD., LEEDS BRIDGE, LEEDS

'Phone : Leeds 20529 & 20520

Calling
Chemists
only . . .



OUR THREE-STAR PROGRAMME



CULTIVATE PRESTIGE BY STOCKING THESE
"CHEMISTS ONLY" PRODUCTS
MORFI

TRANSPARENT 27/- per gross Retail 2/6 pkt. of 3
IVORY ... 24/- " " 2/- " 3

FROMMS ACT

Tropic Proof — Guaranteed to keep fresh
for three years in any climate. Made of the
very finest quality materials.

36/- per gross Retail 3/- per packet of 3

TROPEX

18/- per gross Retail 1/6 per packet of 3

OVER 20 YEARS'
EXPERIENCE IN THE MANUFACTURE OF
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SOUTHWARK LONDON



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LONDON, E.C.3



The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

APRIL 27,
1935.

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for **DISPOSAL, PREMISES TO LET and FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENTS**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

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Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Estrand, London."

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All advertisements intended for insertion in this Supplement

ORRIDGE & CO.

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—TOOTING.—Main-road cash Retail Business, with good Optical connection; returns approach £2,000 per annum; lock-up shop; stock and fixtures worth about £1,000; premises worth £2,000; inclusive price of business and premises £2,600, £1,000 of which can remain on mortgage.

2.—S.E. LONDON.—Main-road cash Retail Business run under management since establishment; takings exceed £1,700 per annum; accountant's figures; gross profit 35 per cent.; stock and fixtures worth about £900; lock-up shop; rent £125; all-in price £900.

3.—NORTH LONDON.—Cash Retail Business with small Optical connection; increasing turnover, 1935, £1,345; net profit approximately £325; stock and fixtures worth £500; very nice living accommodation; long lease; all-in price £800.

4.—DULWICH (NEAR).—General Retail Business with Post Office; returns £25 per week plus Post Office remuneration, which is just over £5 per week; net profit over £400 per annum; very good living accommodation, with bathroom; rent £75, rising to £80 per annum; vendor wishes to sell quickly and will accept a reasonable offer.

5.—WESTERN SUBURB.—Good-class family Retail and Dispensing Business in pleasant locality; returns 1934 nearly £1,100, with gross profit 40 per cent. and net profit 25 per cent.; rent £92; 12 years' lease; price £1,100 or near offer; stock and fixtures worth about £800.

6.—UPTON PARK (NEAR).—Working-class cash Retail Business, with panel; in present hands 21 years; takings £16 to £20 per week, under management; trial will be given if desired; net profit £275 per annum; stock and fixtures worth £475; living accommodation; price £575 all at; part could remain against good security.

7.—WEMBLEY (NEAR).—Good-class Business, with Kodak Agency; returns at the rate of approximately £1,800 per annum, under management; stock worth £425; excellent flat over, with two reception rooms, bathroom, etc., at present sublet at 27s. 6d. per week; small garden; price all at £750.

8.—NEW CROSS (NEAR).—Middle-class Business, with good Panel connection; established 30 years; returns approach £1,450 per annum; scope for increase; attractive double-fronted corner shop very nicely fitted and fully stocked; living accommodation over, with bathroom; new lease will be granted at £104 per annum; offers invited.

9.—MIDDLESEX.—Good-class suburb; cash Retail Business, with increasing turnover, this year will be well over £2,000; stock and fixtures worth about £900; very nice flat over; oak fixtures; price all at £1,500 or near offer.

56 LUDGATE HILL, E.C.4

ESTABLISHED 1846 Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS OF SALE, PURCHASE & VALUATION

10.—ROMFORD (NEAR).—Good-class Business, with Optical connection; returns exceed £2,750 per annum; stock and fixtures worth about £1,150; new lease; price £750, plus stock and fixtures at valuation.

11.—SOUTHEND (NEAR).—Main-road General Retail Business, with private dispensing; returns £1,250 to £1,600 per annum, under management; stock and fixtures worth about £600 to £650; rent £10 per annum; long lease; price all at £900, or £250 plus stock and fixtures at valuation.

12.—KENT (COAST).—Good family Business, with private dispensing and N.H.I.; returns last year £1,550; vendor aged 70; net profit £400; very nice living accommodation, with bathroom; property can be purchased or leased; price all at £1,300, or valuation terms entertained; vendor will not accept less than £1,200 net; retirement reason for sale.

13.—HOME COUNTIES.—Middle- and working-class Cash Retail Business; returns exceed £3,250 per annum; net profit £700; very nice fixtures; heavy stock; new lease at reasonable rental; price all at £2,500, or £550 plus valuation of stock and fixtures.

14.—SOUTH WALES.—Good-class family Business, with increasing turnover, last year being £2,056; net profit approximately £500; double-fronted shop, nicely fitted and fully stocked; five-roomed house, with bathroom; rent under £75 per annum; held on lease; price £1,300 all at, or £500 plus valuation of stock and fixtures.

15.—NORTHANTS.—Good medium-class Business, occupying splendid position in busy road; returns £1,700 last year, increasing; good profits; stock and fixtures worth £1,050; rent £75 per annum, rising to £100 per annum; price all at £1,250, or £200 plus valuation of stock and fixtures.

16.—CROYDON (NEAR).—Good-class Business, with small Optical connection; returns £1,500 per annum, increasing; double-fronted shop exceptionally well fitted and nicely stocked; rent £140 per annum; new lease; flat over, at present sublet at £65 per annum; price all at £1,250.

17.—SOMERSET (LARGE TOWN).—Main-road cash Business, returning nearly £1,800 per annum; net profit to managing proprietor approximately £500 per annum; full wine and spirit licence; price about £1,600, or £250 for goodwill plus stock and fixtures at valuation; genuine reason for disposal.

18.—CHATHAM (NEAR).—Middle-class Business, with good Panel; returns £1,425 last year; good profits; stock worth £300; nice living accommodation; rent £90 per annum; long lease; price all at £750; dissolution of partnership.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.

ERNEST J. GEORGE & CO.

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport.

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) HANTS COAST.—Attractive modern pharmacy extremely well positioned, with good living accommodation, including all up-to-date conveniences; turnover for complete year should be in the region of £2,500, with genuine prospects of an early £3,500-£4,000; price about £1,250; excellent opportunity; lease contains a valuable monopoly clause.

(C2) SUSSEX COAST.—Old-established family business with self-contained house, including three bedrooms, bathroom, etc.; increasing turnover, the returns for the last financial year being upwards of £1,400; net profit about £360; steady all-the-year-round trade; genuine reasons for disposal; reasonable purchase price.

(C3) LEICESTERSHIRE.—Old-established market town business with definite scope for increase; turnover for last financial year, £2,397; gross profit £902; lock-up shop; price £2,050, which includes a nominal goodwill only.

(C4) WIMBLEDON (NEAR).—Excellent profit-earning cash business with definite opportunities for further development; turnover approximately £2,300 per annum; net profit upwards of £600; reasonable rental including living accommodation; price by negotiation.

(C5) FINCHLEY (NEAR).—Owing to contemplated retirement an established main road pharmacy with spacious house above, is available for purchase at a reasonable figure. Present returns approximately £1,750 per annum, with abundant scope for substantial increase; good stock and excellent fixtures; splendid opportunity for chemist with enterprise.

(C6) BEDFORDSHIRE.—Undeveloped pharmacy with good living accommodation, situated in growing market town; present returns £15-£20 weekly, with plenty of scope for further increase; reasonable rental; long lease; price all-at about £400, including stock approximately £250; excellent opportunity.

(C7) SUSSEX.—Attractive country business, with no opposition, situated amid beautiful surroundings near to sea; returns approximately £1,250 per annum; net profit about £350; freehold also available, upon which a substantial mortgage could be arranged; price of business £750; property £975, being considerably less than cost.

(C8) WARWICKSHIRE.—Attractive modern pharmacy, with excellent house, including good garden and garage; steadily increasing turnover; present net profit approximately £350 per annum, with genuine prospects of an early £400, and subsequent further extension;

Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SOUTH COAST.—High-class Dispensing Business in splendid position; turnover £3,500; good profits; attractive Pharmacy, fully stocked; price £2,750; further details on receipt of banker's reference.

2.—SUSSEX (near Coast).—Old-established Light Country Retail; pleasantly situated; returns last year £1,750, net profit £500; large house, splendid garden, garage, etc.; stock worth £750; price £1,600.

3.—CORNWALL.—Good-class Dispensing Business with Optics; in central position; turnover last year about £2,250, net profit £450 to £500; large shop with flat over; stock and fixtures worth approx. £1,150; price £1,600 or £1,500 without Optics.

4.—ESSEX COAST.—Light Family Retail, showing steady increase; present returns about £1,350, net profit approx. £350; books audited; corner shop, fully stocked; moderate rent; long lease; price £850 or valuation terms arranged.

5.—SURREY.—Good Family Retail and Dispensing, with branch; turnover £2,300; net profit exceeds £550; good living accommodation; own property; retiring; price £1,800.

6.—MIDLANDS.—Medium Cash Retail, with N.H.I. and Photo; returns £1,172; net profit £300; attractive modern shop, with house and large garden; price £700 or near offer.

7.—LONDON, N.—Light Family Retail, with Optics; returns £2,000; net profit £500; audited books; double-fronted shop, flat over available; stock and fixtures worth £700; price £1,250.

8.—WEST MIDDLESEX.—Well-established Light Retail, in good main-road position; returns £1,700, net profit £450; rent £75, sublet £68; spacious double-fronted shop, well stocked; leaving trade; price £1,000.

9.—LONDON, E.1.—Light Cash Retail, with good N.H.I. and Photo; returns £1,500; good profits; modern fitted shop, with good house; own property; will sell or grant lease; stock worth £500; price £1,000.

10.—LONDON (Kent Suburb).—Light Cash Retail; in growing district; no opposition; returns about £800; plenty of scope; low rent on lease; price for quick sale £225; suit beginner.

BUSINESSES WANTED.

We have a large number of genuine Cash Buyers seeking sound concerns showing from £300 to £800 net profit yearly, and intending vendors desirous of a quick sale, without any publicity, should communicate with us at once.

Estab. 1870.

Telephone: Terminus 3574.

Bank Chambers, 329 High Holborn, London,

Telephone Nos.: Holborn 7406 & 7407 (2 lines)

W.C.1

15 Bridge Street, Walsall Telephone: Walsall 3774

low overheads; no near opposition; price £800 all-at; excellent opportunity to acquire well-conducted, congenial and genuine business; early investigation strongly recommended.

(C9) COVENTRY.—Progressive modern pharmacy with good living accommodation; turnover for last financial year, £1,172; good scope for increase; rent and rates £106 per annum; price £600, including stock £300.

(C10) DEVON.—Increasing and beautifully fitted up-to-date business with good living accommodation; excellent opportunity for chemist able to devote personal attention; rapidly-growing district; reasonable purchase price; larger business also available, either jointly or separately, the net profit from which is at present in the region of £450 per annum; full details to genuine prospective purchasers upon application.

(C11) BRISTOL.—Established retail business situated in thickly populated residential suburb; turnover for last financial year £1,235; good living accommodation; rent, including rates, £100 per annum; reasonable purchase price.

(C12) KENT COAST.—Pharmacy, with living accommodation, for disposal owing to genuine ill-health; turnover for 1934-35, £1,040; net profit £310; good scope for further increase; for a quick sale £125 will be accepted for goodwill, plus the value of stock and fixtures; trial can be arranged if desired.

(C13) ROMFORD (NEAR).—Genuine middle-class business for disposal owing to retirement, at very reasonable figure; turnover for last financial year upwards of £1,800; vendor owns property, and will grant a long lease at a very moderate rental; living accommodation; definite scope for further substantial increase; £200 only is asked for goodwill, plus the value of stock and fixtures.

(C14) NORFOLK.—Old-established business, situated in prominent market town; turnover approximately £1,800 per annum; rent £80, including living accommodation; reasonable purchase price; accountant's figures available, and every facility will be allowed for investigation.

(C15) GLOUCESTERSHIRE.—Village pharmacy showing steadily increasing turnover; returns for last financial year approximately £1,300; good living accommodation, including garden; rent £40; extensive area to draw upon; reasonable purchase price; this business should strongly appeal to a lover of the country, and the old-style pharmacy.

(C16) LONDON, S.E.—Exceptionally good profit-earning business situated in thickly populated district; turnover for 1934 financial year, £2,115; net profit approximately £500; certified accounts; reasonable overheads; house available if required (at present sublet); price all-at £1,175.

S. F. CLARK, F.N.A.A. Prospect 3366
CHEMISTS' VALUER & TRANSFER AGENT

34 Marksbury Avenue, Richmond, Surrey

PHARMACEUTICAL SERVICE cannot be automatically controlled from a distant headquarters, it calls for intimate personal direction. All matters of business transfer, valuations, partnerships, and mortgage requirements receive my personal attention.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

(Business Agency, Transfer & Valuation Department)

KIMBERLEY HOUSE, and at EXCHANGE CHAMBERS, Holborn Viaduct, LONDON, E.C.1 2 Bixeth St., LIVERPOOL.

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BUSINESSES FOR DISPOSAL.

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BOURNEMOUTH.—Handsome fitted and well-stocked Pharmacy; excellent position, main road; return under management approx. £25 weekly; has done considerably more, but been somewhat neglected; reasonable rent, lease; splendid house attached, with garden, etc.; accept £700 for quick sale. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. (Tel.: Failsworth 1913.)

BURY, LANCS.—Drug Store; centre of town; average takings £30 per week; modern shop; expensively fitted; all mahogany; requires a Qualified man; splendid opening for Optics; very large room over shop suitable for Beauty Parlour or High-class Hairdressing; lease 21 years; £150 p.a.; modern frameless double front; latest lighting arrangements; no goodwill; accept £180; stock optional. Here's a bargain. 118/11, Office of this Paper.

ESSEX COAST.—Drug Store; returns last year £748, increasing; next door to doctor's surgery; splendid opportunity for a Qualified man; all at £300. 119/8, Office of this Paper.

ESSEX (EXCLUSIVE OFFER).—Vendor retiring; good middle-class established Chemist's business; returns for past 3 years under management £2,570 per annum; owner proprietor should make £600 net profit annually; attractive, well fitted, heavily stocked; very easy rent; valuable lease; good house; a sound offer at £1,950; no triflers entertained. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. (Tel.: Failsworth 1913.)

LANCS.—Small Town Family and Dispensing Business; next door to doctor; fitted Optical Room; old established; now under management; proprietor would rapidly increase business; low rent; good living accommodation; takings £500 per annum plus 5,500 Scrips; price, valuation stock and fixtures, approx. £400; part could remain; no agents. Replies 119/461, Office of this Paper.

LIVERPOOL.—Main road; Kodak Agency; small N.H.I.; well stocked; present annual cash takings £900, under management; scope for improvement; a splendid opening for an energetic man; stock and fittings £600. 119/35, Office of this Paper.

LONDON, N.W.—Cash Dispensing and Photographic Business; good position; next to surgery; no near opposition; long lease at low rental; returning £300 net, increasing; accept £450 inclusive or £250 plus s.a.v. for an immediate sale; further particulars and reason for disposal to genuine enquirers. 118/33, Office of this Paper.

LONDON, S.E.—Old-established Business, busy main road; living accommodation; Kodak, Selo and Ensign Agencies; small Optical connection; rent £110, sublet £65; turnover £1,242; stock and fixtures approx. £500; accept £450 for quick sale. 118/35, Office of this Paper.

LONDON, S.W.—Sound middle-class main-road business; turnover approx. £1,100; accounts audited showing steady increase; rent and rates £114; good house, side entrance and garden; long lease; good Dispensing; any investigation; sound reasons for disposal; price £750. 120/6, Office of this Paper.

LONDON (W.1 District).—Very old-established Cash Pharmacy in good position; good stock; usual agencies; long lease; net profits last year £458 9s. 4d., audited figures, increasing; price £750 or near offer; genuine buyers only. 116/9, Office of this Paper.

SEASIDE Lock-up Drug Stores, developing main-road centre; 13 years' goodwill; Photography and Toilets; low rent; lease granted; Glass Cases and Fittings £60; good, clean working stock at valuation; lady owner getting married, hence the sale; straightforward transaction; references required. 116/17, Office of this Paper.

SOUTHEND (NEAR).—Excellent Modern Pharmacy; well-fitted and stocked; returns past 3 years £28 weekly, excluding N.H.I.; very low rent; valuable lease; fine position; good house attached; unique offer and valid reason for disposal; price £950, about; no triflers entertained. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. (Tel.: Failsworth 913.)

SOUTHEND-ON-SEA.—Chemist; double-fronted shop; good living accommodation; low rent; well stocked; takings £20 per week; £350, all at. Apply Station Estate Office, opposite Prittlewell Station.

SOUTH WALES.—On new estate; Good-class Retail Business at present under poor management; takings £15 weekly, showing good profit; overheads very low; excellent opportunity for young Qualified, as there is scope for very substantial increase takings under personal supervision; price £300 for immediate disposal. 119/20, Office of this Paper.

SURREY.—Splendid Opportunity occurs to acquire Modern Pharmacy in rapidly developing shopping centre, with surrounding population of nearly 80,000; business open 9 months, not fully developed, affording ample scope for large increase in turnover in near future; success assured to an enterprising man with some capital; good reasons for disposal. 119/29, Office of this Paper.

WEST LONDON Suburb.—Double-fronted Pharmacy for Sale; low rental; turnover £1,600; owner going abroad; first reasonable offer secures; audited accounts; any investigation; kindly seal replies. Chemist, 143 Broadway, W.7.

WIMBLEDON (near).—Steady, well-established middle-class Cash Business; net profit over £600; well stocked; good lease; comfortable living accommodation; opening for Optics; accountant's figures available. 118/37, Office of this Paper.

AN Opportunity to acquire a nice business in a suburb of Bournemouth; established 18 months; average weekly turnover £24, steadily increasing; ideal opening for Optics; Kodak, Rexall and Ucal Agencies; attractive shop, double-fronted, with excellent modern living accommodation; a quick sale desired owing to family health reason; £400 plus stock at valuation (£300 approx.), 6 Grand Parade, Boscombe East.

FOR a Quick Sale a Reasonable Offer accepted; small Country Business, taking £13-£15 per week; unopposed; Kodak Agency; N.H.I. 180 per month; scope for Optician and Prescriber; good accommodation; 18 years' lease; rent and rates £95 p.a.; can be sublet, £52; stock about £150; nicely fitted; district rapidly developing; business neglected, owner having other interests. 119/21, Office of this Paper.

FOR Sale in Midland Counties, Two Businesses, Mixed Trade, showing abnormal high net profit; good shops; valuable leases; turnover £4,000-£5,000 per year; splendid chance for live man. 120/3, Office of this Paper.

OPPORTUNITY to Purchase Modern Pharmacy, excellent fittings; comprehensive high-class stock; the original business dates from 1882; it was then the leading Pharmacy in Alexandria, with daily output of R. 80, apart repeats; excellent daily counter sales; British, American, Continental patents; Perfumery, Sundries, Photo goods; exceptional corner position, centre of "Luxe" shopping, banks, commercial houses; about 3,000 persons pass daily. *Establishments Pharmaceutiques, Otto Von Huber, Alexandria, Egypt.*

REAL Opportunity for Ambitious M.P.S. to Purchase growing Middle-class Cash Chemists; commanding position at 'bus stop, N. London; modern shop front and fittings; sound stock; modern maisonette above shop; genuine reason for sale; good lease; moderate rent; price £650 or offer; stock at valuation. Write BM/TKKT, London, W.C.2.

£500. —UP-TO-DATE Pharmacy; busy thoroughfare; living accommodation over; reasonable rental; takings £1,350 p.a.; beautifully fitted (worth £550); stock worth £350; quick sale essential; London, W. 119/25, Office of this Paper.

BUSINESSES WANTED.

M.P.S. DESIRES to Purchase Small Business on terms; small deposit and completion within 12 months; position with view to purchase entertained. 119/6, Office of this Paper.

PREMISES TO LET.

FINE OPENING FOR CHEMIST.—Double-fronted Shop, with ample living accommodation; adjoining Snaresbrook Station, Wanstead, E.11; low rent. Allam, "Norton Garth," The Close, Gidea Park, Essex.

PARTNERSHIPS.

CONSULTING Optician, with old-established practice, offers Shop Premises, good-class neighbourhood, to young, enterprising, keen Chemist; view mutual co-operation; very low expenses; fittings available; excellent opportunity for beginner with small capital. 119/14, Office of this Paper.

AGENCIES.

ADVERTISERS, shortly marketing a new line with a very wide potential sale, desire contact with a firm of Agents employing Travellers who can undertake to handle the same adequately; information given only at interview. Replies, which will be treated in strict confidence, should give details of firm's organisation. 259/391, Office of this Paper.

SALE BY AUCTION.

Removed from Oxford Street for convenience of Sale.
2 to 5 LITTLE BRITAIN (close to G.P.O.),
LONDON, E.C.

SHOP EQUIPMENT AND SHOWCASES, Drug Runs, Counters, Dispensing Screens, Mirrors, Silent Salesmen, Tills, Stands, Office Furniture, Safes, Typewriters, etc., will be sold by auction by

B. NORMAN & SON,

at their Sale Rooms, as above, WEDNESDAY NEXT, May 1, at Twelve o'clock. View day prior. Catalogues on application. Tel.: NAT. 6463.

TENDERS INVITED.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE. SUPPLY OF STORES, FURNITURE, ETC.

APPLICATIONS are invited from persons and firms (particularly manufacturers) for permission to be placed on the list of persons and firms from whom the County Supplies Committee may from time to time invite quotations for various kinds of stores, such as printing, bookbinding, motor cartage, first-aid appliances, etc., engineers' tools and stores, ironmongery, metals, hardware, furniture (school and office), soap, paper (various kinds), manufactured stationery, office sundries, textiles, clothing, haberdashery, timber (soft and hard), boot leather and leather goods, brushes for cleaning, chemicals, drugs.

Applications must be made on the official form, copies of which (together with standard conditions of supply) may be obtained from the Manager, County Supplies Department, Cliff Lane, Wakefield.

Firms who have already applied and have received acknowledgment of the form need not make fresh application.

J. CHARLES MCGRATH,
Clerk of the County Council.

County Hall, Wakefield.

APPRENTICES.

APPRENTICE Wanted.—A thorough training offered in all branches of the business and small increasing salary given to well-educated youth who can prove himself keen and energetic. "Chemist," 330 Norwood Road, S.E.27.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra)

CHELMSFORD.—Junior Assistant (19 to 25), Male, required for branch in main street; Unqualified; must be accurate Dispenser, good Counterman and have some knowledge of Window-dressing. Apply, stating age, height, experience, references, and salary expected, to T. Bellamy, Pharmaceutical Chemist, 2 Tindal Square, Chelmsford.

COVENTRY.—Qualified Junior Assistant wanted. Reply, stating salary required, particulars of experience and copy references, to 119/52, Office of this Paper.

HULL.—Young, Energetic Man wanted as Qualified Assistant; permanent; good Counterman; Photographic and Window-dressing experience; full particulars of previous experience, age, references. Apply 119/43, Office of this Paper.

LONDON, E.2. (near City).—Qualified Assistant; accustomed to Middle-class Trade and N.H.I. Dispensing; give full particulars of experience, names of references, when disengaged, age and salary expected. Apply (letter only) Chemist, 37 Syden Road, Stoke Newington, London, N.16.

LONDON, N.—Qualified Assistant to manage branch single-handed; smart, honest, obliging, Window-dresser and not afraid of work. Apply, with usual particulars re references, wages expected, etc., to 120/8, Office of this Paper.

LONDON, S.E.—Qualified Young Lady for Light Retail; permanency. Apply 119/48, Office of this Paper.

LONDON, S.E.1.—Unqualified Man, experienced and capable, required May 6th for industrial district; must be familiar with N.H.I. work and Photography; full details of age, experience and salary required in first letter; send nothing returnable. 120/12, Office of this Paper.

LONDON, S.W.—Wanted at once, Assistant, either sex; Shop and Dispensing; N.H.I. experience necessary; hours 9 to 8, Sat. 9, every other Sunday 2 hours morning and evening; references, which must be undeniable when asked; salary £3 per week. 119/1, Office of this Paper.

MANCHESTER.—Qualified Manager required (not under 27 years); must be thoroughly experienced and accustomed to better-class trade; must be excellent Window-dresser and used to high-class Toilets, Photographic and Dispensing business. Write, stating age, height, experience, salary required (photo if possible), to 118/3, Office of this Paper.

SURREY.—Qualified Assistant required (age 24-34); must be good Salesman, reliable Dispenser. Send full particulars in first letter (photo if possible). 259/390, Office of this Paper.

SURREY.—Required in about six weeks, Qualified Chemist and Optician (about 26) to manage branch; must be business builder and used to Family Business; excellent prospects for really capable man; give full particulars in first letter; replies not answered in ten days respectfully declined. 259/386, Office of this Paper.

WEST RIDING.—Qualified Manager for new branch; must be smart and good Counterman and have satisfactory knowledge of Dispensing, Photography, Salesmanship and Stock Control. Give usual particulars. Please do not enclose photos or addressed envelopes. 116/21, Office of this Paper.

A.A.A.A.A.—London (near). Unqualified Assistant wanted immediately; please state age, experience and salary required. Write 118/31, Office of this Paper.

A QUALIFIED Assistant, male, single (age not over 25); must have good country experience. Apply in writing, giving particulars and recent photograph (if to be returned, enclose a stamped and addressed envelope), to P. Rhosser Roberts, Ltd., Poplar Walk, W. Croydon. All applicants not replied to within 7 days declined.

A QUALIFIED Man will be required in the course of the next three weeks for a new branch near North London; applicant must be a good, all-round experienced man and able to take charge if necessary. Write, giving full particulars of age, experience and salary required, to 119/4, Office of this Paper. Applications not replied in 10 days declined with thanks.

ASSISTANT, Unqualified, tall, of good appearance and address; must be experienced Dispenser and Counterman; competent and energetic (age about 30); permanency to right man. Full particulars of age, height, experience, salary, photo if possible, Hill & Shaw, Chemists, Cheltenham.

AT ONCE.—Qualified Assistant for 2 or 3 months, possibly permanent, for high-class Pharmacy, West of England; state age, height and experience, with references, whether married or single, when disengaged and salary required; recent photo. Apply 118/13, Office of this Paper.

AT ONCE.—Young Qualified Assistant wanted for Good-class Dispensing business. Apply "C. B. W.", 19 Vivian Avenue, Hendon, N.W.4.

CHEMIST-OPTICIAN, Qualified, wanted for business near London; (not over 40). Full particulars and salary required to 259/389, Office of this Paper.

CHEMIST-OPTICIAN required for progressive business in Lancashire town (age preferably over 30). All particulars, qualification, experience, salary required, state whether disengaged, to 119/46, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

JUNIOR Unqualified Assistant; good experience, especially N.H.I., and a good worker; at once. Write, 'phone New Cross 4387, or call (not between 2 and 3 p.m.), giving recent references and salary required, Hanham, Greig's Drug Stores, Ltd., 591 Old Kent Road, S.E.15.

LADY Assistant for South Coast, Unqualified; Window-dresser, Toilets, Patents and Dispensing, with knowledge typewriting an advantage. Apply, with references, age, salary required and when free. "Toilets," 118/1, Office of this Paper.

LADY Assistant, Unqualified; must have first-rate experience in N.H.I. quick Dispensing; also in first-class Toilet Trade, Coty, Bourjois, etc.; no junior considered. Full particulars of age, height, photo, copies of testimonial only, including the last situation, wage required; comfortable berth to suitable applicant. Bell, Pharmaceutical Chemist, Mansfield.

LOCUM, Qualified, required June 3 for a fortnight and from July 1 for approximately ten weeks. Write in first instance, giving particulars of salary expected, to The Secretary, Pratts (Chemists), Ltd., 73 Salisbury Road, Kilburn, N.W.6.

MANAGER required for Chemist's Business; Liverpool suburb; with Optical qualifications. Apply for full particulars, 259/384, Office of this Paper.

MANAGING Assistant, Qualified; Optics (not essential); all-round experience (with view to succession preferred); married; modern living accommodation; part time employment for wife with knowledge of the business. Particulars and salary required; interview. H. E. Clement, Chemist, Hampton Hill, Middlesex.

MESSRS. TIMOTHY WHITES & TAYLORS, LTD., have vacancies for Relief Staff, Qualified and Unqualified, in all parts of the country; permanencies later to suitable applicants. Full particulars to Retail Staff Dept., 30 Chandos Street, Portsmouth.

QUALIFIED Counter Assistant (female) required for City Branch; hours 8.45 a.m. to 6 p.m., 1 o'clock Saturdays; no Sunday work (age about 25). Write, giving fullest details of experience and qualifications, to Staff Manager, Civil Service Stores, 425 Strand, W.C.2.

QUALIFIED (either sex), as General Assistant, London, E.; also one for part time as extra help morning and evening, or evenings only; letters not answered in 7 days respectfully declined; state references and moderate salary. Write 119/18, Office of this Paper.

QUALIFIED Gentleman (about 25) for high-class Pharmacy, London, W., required immediately; salary £5. Apply 118/27, Office of this Paper.

QUALIFIED Junior Assistant (Male); used to a Quick Cash Trade, N.H.I. Dispensing; no Sunday or Bank Holiday duty; other Assistants kept; please give full particulars, age, height, salary, experience, enclosing photo if possible. Vernon Thompson, Chemists, Sparkbrook, Birmingham.

QUALIFIED Lady required to manage branch shop at Edgware. Reply with full particulars to Lady Chemists, Ltd., Mill Hill, N.W.7.

QUALIFIED, Lady, young, as Assistant in good-class Family and Dispensing business; London, S.E.; comfortable permanency; state age, experience and salary required. 119/54, Office of this Paper.

QUALIFIED Manager (lady) required for country branch in beautiful district of Somerset; to commence Monday, May 13. Reply, giving age, salary required, experience, enclosing photo-graph, to 119/31, Office of this Paper.

QUALIFIED Relief Managers required for the Summer Season. Applicants must be well up in modern Pharmacy; capable of control; energetic and live business men; good salary and commission; permanencies will be offered to competent men. Apply, giving age, full particulars of experience and salary required, to Staff Manager, Timothy Whites and Taylors, Ltd., Chemists, Portsmouth.

QUALIFIED Young Managing Assistant (Lady or Gentleman) required for nice Retail and Dispensing Business in South-East district of London; full particulars, including salary, should be stated. P.C.B. 161/3, Office of this Paper.

SMART M.P.S. required. Apply 259/393, Office of this Paper.

SMART Qualified required, near Wanstead, London, E.; accurate Dispenser and one possessing all the attributes of good Salesmanship essential; please state salary desired and full particulars (including references and photo if possible); also wanted for same district, Superintendent; light Dispensing duties. 119/38, Office of this Paper.

UNQUALIFIED Assistant required about the middle of May; good all-round knowledge of the business and efficient Window-dresser (not over 30). Apply, with full particulars, Arnold, 1 Old Tiverton Road, Exeter.

UNQUALIFIED, Male (23-27); accustomed to high-class London Pharmacy. Apply Mr. Miner, Greenish & Co., 20 Melcombe Street (Baker Street), N.W.1.

UNQUALIFIED Man required to manage new Drug Stores and open same; Surrey town; commencing salary £2 a week, plus 10 per cent. commission on turnover exceeding £10 weekly. Particulars and photo if possible to 116/13, Office of this Paper.

UNQUALIFIED Young Lady Assistant; chiefly for Dispensing; near Windsor. Particulars of experience and salary required (no stamped envelope) to 118/9, Office of this Paper.

WANTED, at once, Qualified Lady Locum; wire to save time. F. Beecroft, Store Chemist, Avonmouth.

WANTED for Yorkshire from May 20 until September 30, an Improver, one used to high-class Dispensing only. Enclose photo, stating height, age and salary required, also references. 117/1, Office of this Paper.

WANTED immediately, Young Unqualified Lady Assistant; write, stating age, experience and salary required; photograph if possible. "Chemist," 330 Norwood Road, S.E.27.

YOUNG Lady required immediately for Upton Manor Branch. Please give full particulars as to age, height, experience and salary required in first letter, enclosing photograph if possible, The Secretary, Churchills, Chemists, Ltd., 350 High Road, Tottenham, N.17.

YOUNG Qualified Assistant as Locum, from July 22 to August 24 inclusive; must be reliable Dispenser and able to act as relief for Branch Managers; knowledge of Optics an advantage. Applications (endorsed "Pharmacy"), giving full particulars, to Nottingham Co-operative Society, Ltd., Upper Parliament Street, Nottingham.

YOUNG Qualified Assistant; must be quick and accurate Dispenser. Write, stating salary required, etc., to 259/394, Office of this Paper.

WHOLESALE.

GENTLEMAN Required by Provincial House as Representative to interview Chemists, Institutions, Doctors, etc.; should be Qualified, of good Sales ability and pleasing manner; young and energetic, able to drive a car. State experience and salary. 259/387, Office of this Paper.

JOHN RICHARDSON & CO., LEICESTER, LIMITED, require a Foreman for their Pill and Tablet Department; must be a thoroughly competent man, with practical experience. Apply Evington Valley Road, Leicester.

QUALIFIED Chemist, with practical experience of Laboratory Manufacture, required as Works Manager by old-established firm of Manufacturing Chemists; experience of Essential Oils and Essences an advantage; prospects of an early directorship to a suitable applicant; reply, stating qualifications, age, experience and salary required. 259/385, Office of this Paper.

REPRESENTATIVES required to carry Two Sidelines on 10 per cent. commission; good connection Chemists, Ladies' Hair-dressers, Stores, etc. Particulars of territory, connection and lines already carried to Box 140, Scripps's, South Molton Street, W.1.

SURGICAL Dressing Manufacturers require experienced Sales Agent for Ireland; commission basis; good connection Hospitals, Wholesale and Retail Chemists. 259/382, Office of this Paper.

SURGICAL Dressing Manufacturers require whole-time Representative with car to cover Scotland, Northern England; must have good connection Hospitals, Wholesale and Retail Chemists. State salary desired. 259/381, Office of this Paper.

WANTED for a small Manufacturing House in Lancashire, business mainly Medical, a competent Unqualified Assistant (age 35); preference given to one with some knowledge of Steam Plant. Apply, with full particulars past employment, wages required, 119/460, Office of this Paper.

WORKS Chemist, thoroughly capable of manufacturing Toilet and Household lines, controlling staff and doing Laboratory analysis of raw materials; splendid opening for young and energetic man. Apply, with full details of age, experience and salary required, to 259/383, Office of this Paper.

WRITER Wanted in Advertising Department of English Manufacturing Chemists; literary experience and Pharmaceutical training necessary. When writing give particulars of salary, experience and age. 259/388, Office of this Paper.

YOUNG Assistant required in Wholesale Chemist's for Manufacture of Cosmetics; preferably some experience in this work. 259/392, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A. —QUALIFIED, Reliable Dispenser, live Display and Salesman; locum considered; salary reasonable. "Salesman," 3 Durlestone Road, E.5.

A.A. —ASSISTANT (23), Unqualified, requires situation; London preferred; excellent all-round experience; available April 29th. "K," 47 Aldbourne Road, W.12.

A. —YOUNG Lady, Qualified, good experience in Dispensing, Counter and Photographic work in high-class Pharmacies, seeks situation Glasgow, Liverpool or South Coast towns in England; excellent references. 119/33, Office of this Paper.

A CAPABLE, active M.P.S.; all-round London experience; locum or permanent; reasonable; excellent references; disengaged. Pharmacist, 32 Myddleton Square, E.C.1.

A DVERTISER, Qualified, young, requires position immediately; London or suburbs, South preferably. 70 Mount Nod Road, S.W.16.

A SSISTANT, experienced; quick Counterman, Dispenser, D. and P., Windows, Sundries, etc. (age 28); salary £2 15s. "Statim," 27 Mansfield Avenue, N.15.

A SSISTANT, Lady, Unqualified; nice appearance and personality; 12 years' experience Counter, Photography, etc.; conscientious and reliable; quick and accurate Dispenser; London. 116/19, Office of this Paper.

A SSISTANT, locum, etc.; all-round experience; active; 25 years Hounslow.

A SSISTANT, male, seeks position immediately, anywhere; 10 years' experience Dispensing, Photo, Counter, Window-dressing; excellent references (age 27); moderate salary. Byrne, 18 Clifton Gardens, Maida Vale, W.9. Abercorn 2034.

A SSISTANT or Manager (44); Unqualified; sound business knowledge; long experience; tall; abstainer; disengaged. Alexander, 128 Uxbridge Road, W.12.

A SSISTANT (25), Qualified, desires change, good-class Dispensing business preferred; experienced all branches; excellent references; London and provincial experience. 119/7, Office of this Paper.

C APABLE Assistant (25), Unqualified; good all-round experience; efficient Salesman, Window Display, Dispensing; references; consider investment; Midlands preferred. 116/7, Office of this Paper.

E XPERIENCED Saleswoman, Drugs, Toilet and Perfumery. "Advertiser," 152 Mandeville Road, Enfield Wash, Middlesex.

L ADY, Qualified, requires post, part time or locum; would manage; good general experience; free 29th. Chemist, 5 Randolph Gardens, N.W.6.

L OCUM, experienced all branches; Qualified and Dental. Blakemore, Chemist, Boundary Hill, Lower Gornal, near Dudley.

L OCUM, experienced manager, any district, now booking holidays. B. S. Jones, M.P.S., 34 The Oval, Stafford.

L OCUM.—Lady, M.P.S., Square, Dispensing, N.H.I., Counter, Hospital, L.C.C., desires immediate locum; excellent references. Hughes, 29 Sutherland Place, Bayswater, London.

L OCUM, Qualified (37); all-round experience; any distance. Chemist, 50 Grove Lane, Camberwell, S.E.5. 'Phone: Rodney 2719.

L OCUM, Qualified (25); excellent references. R. Spence, 18 Longley Road, London, S.W.17. 'Phone: Streatham 5760.

L OCUM (30), Qualified, requires engagements for June; terms £5 5s. per week. 120/11, Office of this Paper.

L ONDON Only.—Reliable Manager, abstainer; accurate Dispenser; thorough knowledge of Photographic and Optics; salary £4 10s. per week and commission. 119/30, Office of this Paper.

M ANAGER, Qualified, Scot (31), married, desires change; London Suburbs or West Scotland preferred; 15 years' experience; free one month. 116/1, Office of this Paper.

M ANAGER, Qualified (39); sound, all-round experience, London, West End, provinces and Continent; present position 11 years; disengaged shortly; 23 years' experience; keen Buyer; would consider temporarily locum engagements. "Chemist," 50 Adelaide Road, Hampstead, N.W.3. 'Phone: Primrose 6732.

M.P.S., MIDDLE-AGED, active; Manager, Superintendent, Inspector; good experience. 120/10, Office of this Paper.

M.P.S. (23) desires post, any capacity; some experience; excellent references; free now. G. W. Morris, 50 Cliff Road, Dovercourt, Harwich.

P ART-TIME.—Unqualified Assistant (23), at present working full time, desires part-time post till September; Romford district. 118/5, Office of this Paper.

P OST required by Lady, now free; 15 years' Dispensing experience with Chemist, Hospital and in private practice; also Book-keeping, knowledge of Ultra-violet Ray and Reception work. 118/23, Office of this Paper.

Q UALIFIED, locum or permanent; middle age; disengaged. Thorley, 27 Crouch Hill, N.4.

Q UALIFIED Scot (29), single, desires position; Manager or Assistant; experienced Manager and Buyer; London or Suburbs; available April 29. Phone Boxmoor 473. "M," 17 Fishery Road, Boxmoor, Herts.

Q UALIFIED 12 years (age 37), height 5 ft. 6 in., present management 8 years, soundly experienced, reliable, active and businesslike, seeks improvement and change of locality; sound permanency, London or South. W., 230 High Road, Leyton, E.10.

Q UALIFIED (23), desires change; permanent or Locum in good-class Pharmacy in South London; good references and experience. 119/53, Office of this Paper.

Q UALIFIED (25), desires permanent position; South preferred; to commence on or about June 17; high-class Dispensing experience, Windows and Counter; excellent testimonials. 120/9, Office of this Paper.

Q UALIFIED (32), requires position as Sales Manager in Wholesale or Manager in Retail; London district; 5 years' experience as manager of good-class Dispensing, Toilet and Photographic business. 119/15, Office of this Paper.

U NQUALIFIED, locum or permanent; disengaged; 20 years' experience, all-round. Harris, Lone Pine, Bembridge.

U NQUALIFIED (28); free; 8 years last situation; undeniable references; thoroughly experienced; keen interest; London district. Davids, 31 Mornington Crescent, N.1.

YOUNG Lady (21); well experienced Retail; good Saleswoman, Window- and Counter-dresser; conscientious and hard worker. P.C.B. 161/7, Office of this Paper.

WHOLESALE.

A SSURE net profits by having accurate costs. Advertiser (33), excellent experience costing from manufacture to finished article, Packed Goods and Allied Trade; desires progressive appointment; sound knowledge also of Buying, Orders and Despatch, Stocks and General Organisation; salary from 90s.; valuable assistance to growing business; highest testimonials. Please write 119/47, Office of this Paper.

E NTERPRISING, Energetic Traveller (25); excellent connection London, Home Counties; 8 years' experience; car. 118/9, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

EXPERIENCED Representative desires appointment well-known Chemists, Hairdressers and Stores London area; salary, commission and expenses. P.C.B. 161/4, Office of this Paper.

EXPERIENCED Traveller, with first-class connection London, Home Counties and Southern England; Retail experience; own car. P.C.B. 161/5, Office of this Paper.

GENTLEMAN M.P.S., with exceptional ability and controlling power, 6 years' travelling experience and fine connection in Midlands, desires position with reputable house as Sales Manager or Midlands Representative; resident Birmingham. 115/1, Office of this Paper.

QUALIFIED Chemist (28), well educated, intelligent; Retail and Laboratory experience; desires post with Wholesale House; indoor or outdoor. 120/4, Office of this Paper.

REPRESENTATIVE, experienced, Qualified Pharmacist; young, keen, energetic; desires represent first-class house in Scotland; requisite appearance, personality, initiative; drive car; disengaged; salary and expenses basis. 116/3, Office of this Paper.

TABLET Maker requires position, experienced in all kinds of Granulating and used to Single Punch and Rotary Machines; knowledge of Pill Making. 119/49, Office of this Paper.

FOR SALE.

(Articles to the value of £5-£50.)

LONDON Pharmacist, having disposed of his freehold premises, has instructed me to offer his Stock-in-Trade, Fixtures, Fittings and Utensils for immediate sale; full details and appointments to view upon request. S. F. Clark, Chemists' Transfer Agent, 34 Marksbury Avenue, Richmond, Surrey. 'Phone: Prospect 5366.

NATIONAL Cash Register for sale; prints each sale and gives total for all sales; condition as new; reasonable price. Write R. Marsh, 136 Grundy Street, London, E.14.

SURPLUS Photomaton Machine; perfect condition; cheap for quick sale. Sidebottom, 50 Central Drive, Blackpool.

THREE 10-gall. developing tanks; Ensign electric Film Dryer, takes 72 films; Ensign electric Baby Rotary print dryer, both 220/250 v.; Ensign Automag Postcard printer; combined printer and enlarger for paper negatives, with Dallmeyer 4.5 lens; no reasonable offer refused. On view 218 High Road, Burnt Oak, Edgware.

MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A COMPLETE Set of Second-hand Shop Fittings, all in sections and suitable for any size shop; Glass-labelled Drug Drawers and Shelving, Wall Cases, Counter Cases, Window Enclosures, Glass Shelves; Mahogany, and just out of Use; £100, or will separate. Send requirements or call PHILIP JOSEPHS & SONS, LTD., 90-92 St. John Street, Clerkenwell, E.C.1. Telephone, Clerkenwell 2191. "Pharmacy Fitters for over a Century."

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

CHEMISTS' Shop Fittings in Oak or Mahogany; keenest prices; 8-ft., 10-ft., 12-ft. Drug Fittings; 6-ft., 8-ft. Wall Cases; 8-ft., 6-ft. Dispensing Screens; 6-ft., 8-ft., 10-ft. Serving Counters; 4-ft. Nests Counter Drawers; All-Glass Counters; Silent Salesmen; Bottles; Window Enclosures and Glass Shelves; send for rough sketches. GEORGE COOK, The Working Shopfitter, 27 Macclesfield Street, City Road, E.C.1. 'Phone: Clerk. 5371.

WANTED.—Gardner's Mixer, small size. Particulars as to condition, together with price and where may be seen, to 259/373, Office of this Paper.

EXCHANGE COLUMN.

2d. per word, minimum 2s. (Box No., 1s. extra.)

WANTED.

PESSARY Mould; also Suppository Mould. 116/15, Office of this Paper.

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Halve the Labour of Taking Stock.

Price of Complete Pad, 2/6 post free.

The Chemist & Druggist, Publications Dept., 28 Essex St., London, W.C.2

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BUSINESS BOOKS FOR CHEMISTS

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Provincial Hospital Pharmacopœias. Contains formulas for medical prescriptions used in twenty-two hospitals and infirmaries in Great Britain outside the London District. Price 3s. net, by post 3s. 3d.

Practical Methods of Urine Analysis. Written by a pharmacist expert in this work and revised by a medical practitioner and lecturer of long experience in clinical analysis. Price 4s. net, by post 4s. 3d.

Diseases and Remedies. Especially written for the use of chemists. Contains 264 pages. (5th Edition.) Price 5s. net, by post 5s. 3d.

The Chemists' Dictionary of Medical Terms. Contains 308 pages. Price 3s. 6d., by post 3s. 8d.

Wootton's Chronicles of Pharmacy. In two vols., maroon cloth, comprising 770 pages. Price 10s. 6d. net, by post 11s. 3d.

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